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PLEASE RETURN

1985 ESTIMATE OF THE COST OF COMPLETING  
THE NATIONAL SYSTEM OF INTERSTATE AND DEFENSE HIGHWAYS  
IN THE STATE OF MONTANA

SEPTEMBER 1984

( DATA AS OF DECEMBER 31, 1983 )

PREPARED BY  
MONTANA DEPARTMENT OF HIGHWAYS  
IN COOPERATION WITH THE  
FEDERAL HIGHWAY ADMINISTRATION  
U. S. DEPARTMENT OF TRANSPORTATION

IN ACCORDANCE WITH  
SECTION 104(b)(5), TITLE 23 U. S. CODE, HIGHWAYS

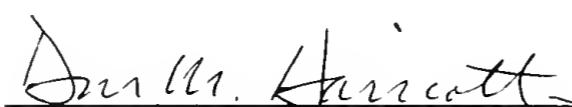
Montana State Library



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This 1985 Estimate of the cost of completing the National System of Interstate and Defense Highways in the State of MONTANA as of December 31, 1983, was prepared in accordance with Title 23, USC, Section 104(b)(5) and the FHWA Instruction Manual by the MONTANA DEPARTMENT OF HIGHWAYS in cooperation with the Federal Highways Administration.



Don M. Harriott, P.E.  
Administrator, Engineering Division  
Montana Department of Highways



Roger K. Scott  
Division Administrator  
Federal Highways Administration



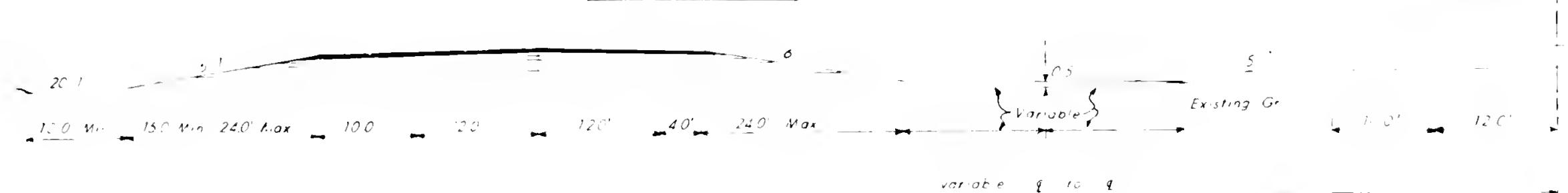
TABLE A  
APPROVED INTERSTATE ROUTE DESCRIPTION  
 STATE Montana

Route Number	Route Description	Length Miles	
		ROUTE SIGNIF. N	ROUTE SIGNIF. L
15	From the Montana-Idaho State line at Monida Pass via Butte, Helena and Great Falls to the international boundary at Sweetgrass	395.2	
90	From the Montana-Idaho State line at Lookout Pass via Missoula to a point on Interstate Route 15 west of Butte, and from another point on Interstate Route 15 east of Butte via Bozeman Pass and Billings to the Montana-Wyoming State line north of Sheridan, Wyoming	543.7	
94	From a point on Interstate Route 90 near Billings via Glendive to the Montana-North Dakota State line near Beach, North Dakota	247.8	
115	From a point on Interstate Route 15 west of Butte, to Butte		1.4
315	From a point on Interstate Route 15 southwest of Great Falls, to Great Falls		0.8
Total		1186.7	2.2

## MODIFIED 2 LANE

## ROADWAY

## ADDITIONAL TWO LANES



## TYPICAL SECTION REFERENCE CODE

## RIGHT SHOULDER

## BIT. SURF.

## CONC. SURF.

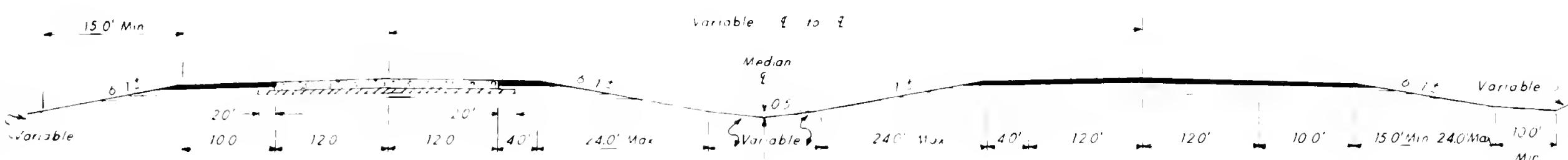
20

21

22

23

## MODIFIED 2 LANE DEPRESSED MEDIAN



10'

30

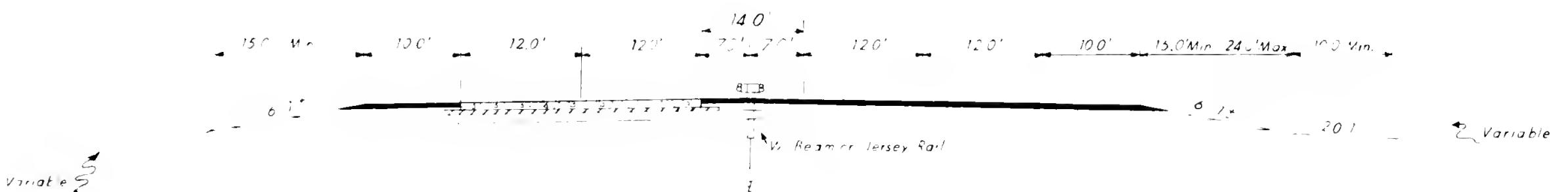
31

6'

32

33

## 4 LANE DIVIDED GUARDRAIL MEDIAN



10'

40

41

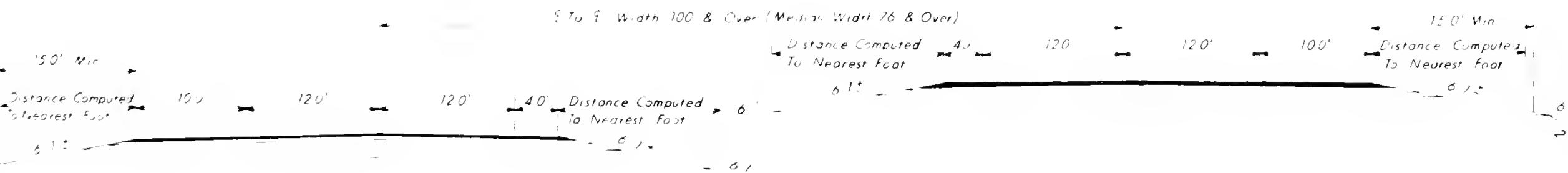
5'

42

43

## INDEPENDENT ALIGN

## 8 To 9 Width 100 &amp; Over (Median Width 76 &amp; Over)



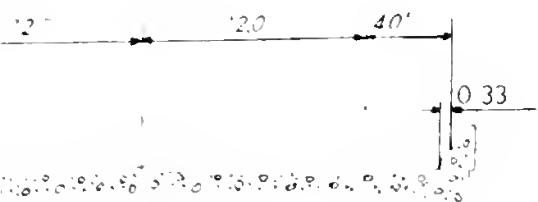
10'

50

51



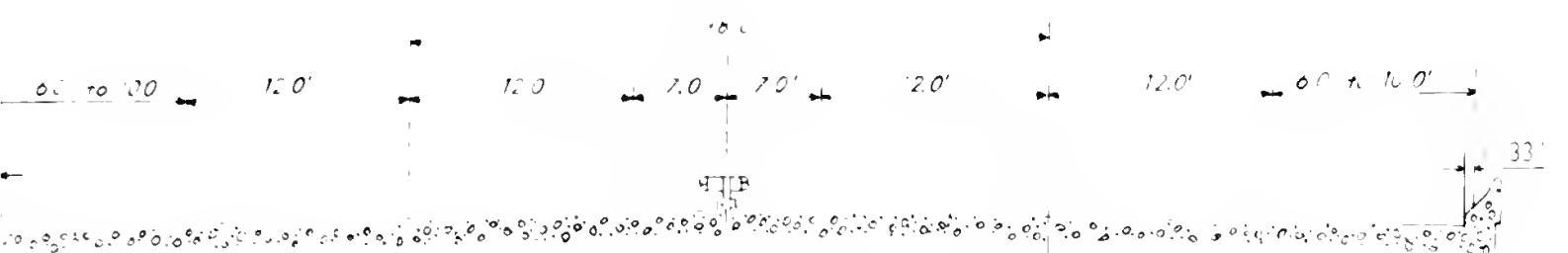
## BRIDGES



Variable 8 to 9

### DEPRESSED MEDIAN

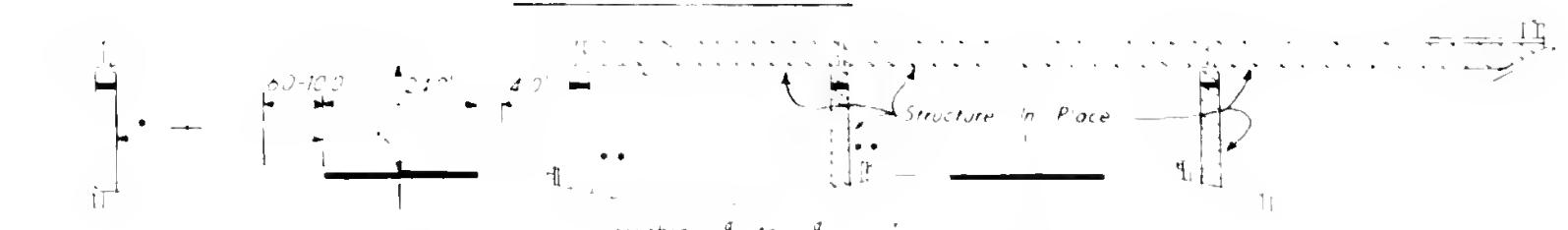
CODE  
0' shoulder 60  
6' shoulder 61



### GUARDRAIL MEDIAN

CODE 70

## UNDERPASSES



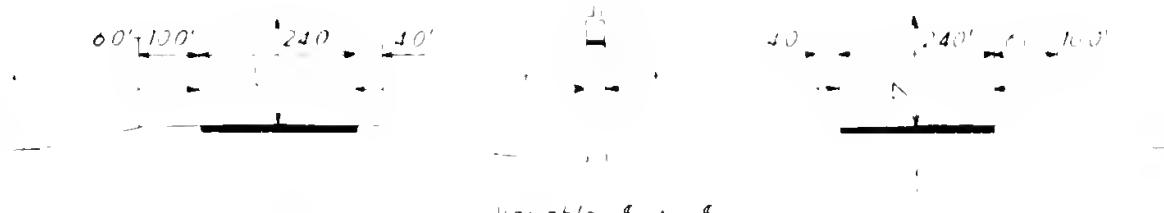
Variable 8 to 9

### EXISTING TWO LANES

• May Have Only One Beam  
in 70' or Less

CODE 80

### GRADE SEPARATION



Variable 8 to 9

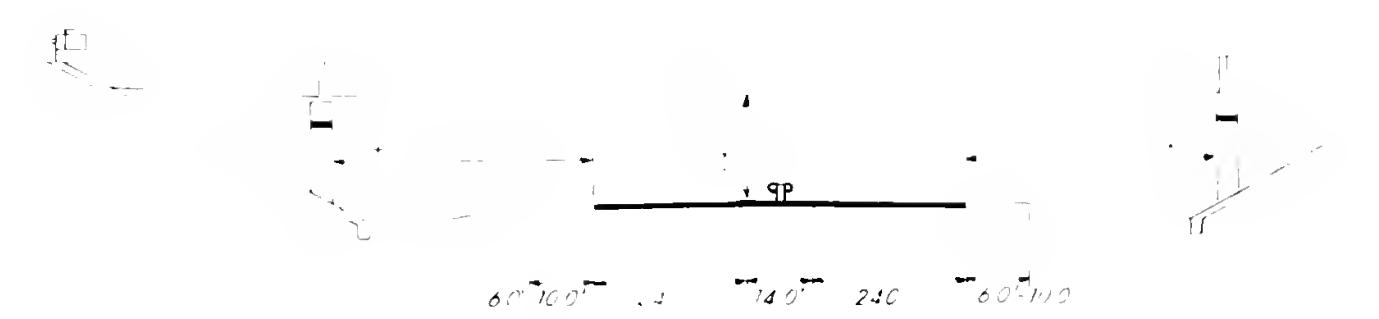
CODE 82

### GRADE SEPARATION

- Less Than 14' Type of Beam is Limiting Factor
- 1 Absolute Minimum (Guardrail < 30')
- 2 Desirable Minimum

- 14' Absolute Minimum (Guardrail < 30')  
30' Desirable Minimum
- 5' 6" Absolute Minimum  
30' Desirable Minimum

- 14' Absolute Minimum (Guardrail < 30')  
30' Desirable Minimum



60' to 70' 12' 14' 24' 60' to 70'

CODE 84

### GRADE SEPARATION - GUARD RAIL MEDIAN

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RUN DATE: 08/02/84

## 1985 INTERSTATE COST ESTIMATE

LE15R85A  
PAGE: 1

STATE: MONTANA

CODE: 30

ROUTE: 1 015

TABLE B  
DESIGN CLASSIFICATION AND COST ESTIMATE  
BY ESTIMATE SECTION

ITEM		ESTIMATE SECTION	MILE POST			
1. FINANCE CODE	.00	43.82	45.66	51.00	52.38	54.50
2. SECTION LENGTH, MILES (0.01)	20	22	22	22	22	20
3. CLASS: RURAL (R) OR URBAN AREA I.O. (NAME AND CODE)	43.74	1.80	5.30	1.40	2.10	74.00
4. MILEAGE INCREMENT: CODE (1,2 OR 3)	000	R	R	R	R	000
5. ROUTE SIGNIFICANCE: CODE (N OR L)		1	1	1	1	
6. DESIGN SPEED(V)		N	N	N	N	
7. BASE YEAR TRAFFIC (1982 ADT)		70	70	70	70	
8. TRAFFIC A. DESIGN YEAR (19 ) OR (20 )	0	1,670	1,670	1,670	1,670	0
B. ADT DESIGN YEAR		5	5	5	5	
C. DHV DESIGN YEAR		2,630	2,630	2,630	2,630	
D. D. DIRECTION DISTRIBUTION FACTOR		350	350	350	350	
E. T. % TRUCK DESIGN YEAR DHV		55	55	55	55	
F. T. % TRUCK DESIGN YEAR (ADT)		21	21	21	21	
9. NO. LANES TO BE CONSTRUCTED THIS ESTIMATE		28	28	28	28	
10. ULTIMATE NO. THROUGH TRAFFIC LANES		2	2	4	4	
11. TYPICAL CROSS SECTION REFERENCE	20	20	30	20	20	
12. RIGHT-OF-WAY WIDTH: PREVAILING	300	270	300	300	300	
13. MEDIAN WIDTH: PREVAILING	93	38	38	38	38	
14. DEVELOPMENT DEC. 31, 1983 (PR-511)	2A2F	2A2F	4A10	2A2F		

## WORK CLASSIFICATION

	ESTIMATED COSTS (1,000 DOLLARS)
1. PRELIMINARY ENGINEERING	0 0 0 0
2. RIGHT-OF-WAY A. ACQUISITION	0 0 0 0
B. RELOCATION	0 0 0 0
3. UTILITY ADJUSTMENT	0 0 0 0
4. EROSION CONTROL, CLEAR, GRUB, GRADE, DRAIN, MINOR STR.	744 1,676 1,144 1,715
5. SUBBASE: BASE: SURFACING: SHOULDERS	739 1,916 616 923
6. R.R. GRADE SEPARATIONS	0 0 0 0
7. HIGHWAY GRADE SEPARATIONS WITHOUT RAMPS	0 282 0 0
8. INTERCHANGES	195 0 1,866 0
9. OTHER BRIDGES, TUNNELS AND WALLS	0 0 99 86
10. TRAFFIC CONTROL DEVICES	252 211 78 118
11. WEIGH STATIONS, PEDESTRIAN AND BICYCLE FACILITIES	0 0 0 0
12. SAFETY WORK ON COMPLETED SECTIONS	0 0 0 0
13. NOISE ABATEMENT MEASURES	0 0 0 0
14. ROADSIDE IMPROVEMENTS A. LANDSCAPING PLANTING	0 0 0 0
B. REST AREAS AND OVERLOOKS	0 0 0 0
15. ALL OTHER ITEMS: MAINT TRAF., TRAINING, MOBIL., ETC.	0 119 266 149 224 0
16. SUBTOTAL, LINE 4 THRU 15	0 2,049 4,351 3,952 3,066 0
17. CONSTRUCTION ENGINEERING & CONTINGENCIES. 15% OF LINE 16	0 307 653 593 460 0
18. TOTAL COSTS OF CONSTRUCTION, LINES 16 AND 17	0 2,356 5,004 4,545 3,526 0
19. TOTAL ESTIMATE COST, LINES 1, 2, 3 AND 18	0 2,356 5,004 4,545 3,526 0

RUN DATE: 08/02/84

## 1985 INTERSTATE COST ESTIMATE

LE15R85A  
PAGE: 2

STATE: MONTANA

CODE: 30

ROUTE: I 015

TABLE B  
DESIGN CLASSIFICATION AND COST ESTIMATE  
BY ESTIMATE SECTION

ITEM	128.43	128.88	132.44	142.44	148.89	153.50
1. FINANCE CODE	22	22	20	22	22	22
2. SECTION LENGTH, MILES (0.01)	.40	3.50	10.00	6.40	4.60	2.70
3. CLASS: RURAL (R) OR URBAN AREA I.D. (NAME AND CODE)	R	R	000	R	R	R
4. MILEAGE INCREMENT: CODE (1,2 OR 3)	1	1		1	1	1
5. ROUTE SIGNIFICANCE: CODE (N OR L)	N	N		N	N	N
6. DESIGN SPEED(V)	50	50		50	60	60
7. BASE YEAR TRAFFIC (1982 ADT)	1,510	1,510	0	1,510	1,510	1,510
8. TRAFFIC A. DESIGN YEAR (19 ) OR (20 )	5	5		4	4	4
B. ADT DESIGN YEAR	2,380	2,380		2,330	2,330	2,330
C. DHV DESIGN YEAR	320	320		310	310	310
D. D. DIRECTION DISTRIBUTION FACTOR	55	55		55	55	55
E. T. % TRUCK DESIGN YEAR DHV	13	13		13	13	13
F. T. % TRUCK DESIGN YEAR (ADT)	16	16		16	16	16
9. NO. LANES TO BE CONSTRUCTED THIS ESTIMATE	2	2		4	4	4
10. ULTIMATE NO. THROUGH TRAFFIC LANES	4	4		4	4	4
11. TYPICAL CROSS SECTION REFERENCE	20	20		40	30	30
12. RIGHT-OF-WAY WIDTH: PREVAILING	300	300		300	300	300
13. MEDIAN WIDTH: PREVAILING	46	86		14	76	14
14. DEVELOPMENT DEC. 31, 1983 (PR-511)	2A3F	2A3F		4A30	4A30	4A30

## WORK CLASSIFICATION

	ESTIMATED COSTS (1,000 DOLLARS)					
1. PRELIMINARY ENGINEERING	0	0		0	110	65
2. RIGHT-OF-WAY A. ACQUISITION	0	0		0	0	0
B. RELOCATION	0	0		0	0	0
3. UTILITY ADJUSTMENT	0	0		0	0	0
4. EROSION CONTROL, CLEAR, GRUB, GRADE, DRAIN, MINOR STR.	295	2,656		3,565	5,265	5,327
5. SUBBASE: BASE: SURFACING: SHOULDERS	135	1,212		1,988	1,917	3,523
6. R.R. GRADE SEPARATIONS	156	162		0	0	0
7. HIGHWAY GRADE SEPARATIONS WITHOUT RAMPS	0	114		247	0	3,029
8. INTERCHANGES	130	0		0	0	1,325
9. OTHER BRIDGES, TUNNELS AND WALLS	0	0		42	0	217
10. TRAFFIC CONTROL DEVICES	25	228		544	768	1,142
11. WEIGH STATIONS, PEDESTRIAN AND BICYCLE FACILITIES	0	0		0	0	0
12. SAFETY WORK ON COMPLETED SECTIONS	0	0		0	0	0
13. NOISE ABATEMENT MEASURES	0	0		0	0	0
14. ROADSIDE IMPROVEMENTS A. LANDSCAPING PLANTING	0	0		0	0	0
B. REST AREAS AND OVERLOOKS	0	0		0	0	0
15. ALL OTHER ITEMS: MAINT TRAF., TRAINING, MOBIL., ETC.	8	73		357	415	775
16. SUBTOTAL, LINE 4 THRU 15	749	4,445		6,743	8,365	15,338
17. CONSTRUCTION ENGINEERING & CONTINGENCIES, 15% OF LINE 16	112	667		1,011	1,255	2,301
18. TOTAL COSTS OF CONSTRUCTION, LINES 16 AND 17	861	5,112		7,754	9,620	17,639
19. TOTAL ESTIMATE COST, LINES 1, 2, 3 AND 18	861	5,112		7,754	9,730	17,704

RUN DATE: 08/02/84

## 1985 INTERSTATE COST ESTIMATE

LE15R85A  
PAGE: 3

STATE: MONTANA

CODE: 30

ROUTE: I 015

TABLE 8  
DESIGN CLASSIFICATION AND COST ESTIMATE  
BY ESTIMATE SECTION

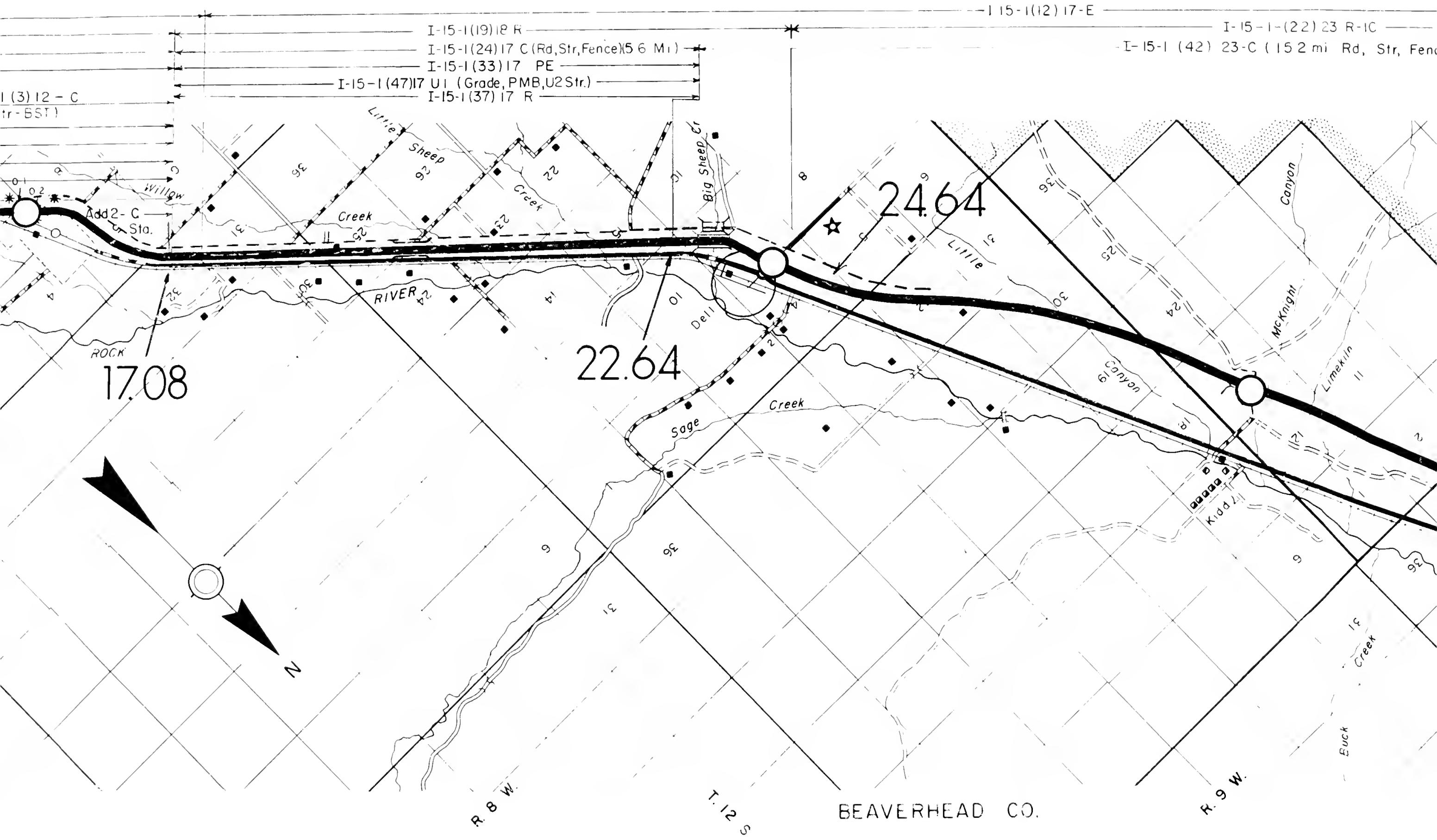
ITEM	ESTIMATE SECTION	MILE POST	TOTAL
1. FINANCE CODE	156.16	247.00	344.26
2. SECTION LENGTH, MILES (0.01)	20	20	20
3. CLASS: RURAL (R) OR URBAN AREA I.O. (NAME AND CODE)	98.80	97.70	42.80
4. MILEAGE INCREMENT: CODE (1,2 OR 3)	000	000	000
5. ROUTE SIGNIFICANCE: CODE (N OR L)			
6. DESIGN SPEED(V)			
7. BASE YEAR TRAFFIC (1982 ADT)	0	0	0
8. TRAFFIC A. DESIGN YEAR (19 1 OR 20 1)			
B. ADT DESIGN YEAR			
C. DHV DESIGN YEAR			
D. D. DIRECTION DISTRIBUTION FACTOR			
E. T. % TRUCK DESIGN YEAR DHV			
F. T. % TRUCK DESIGN YEAR (ADT)			
9. NO. LANES TO BE CONSTRUCTED THIS ESTIMATE			
10. ULTIMATE NO. THROUGH TRAFFIC LANES			
11. TYPICAL CROSS SECTION REFERENCE			
12. RIGHT-OF-WAY WIDTH: PREVAILING			
13. MEDIAN WIDTH: PREVAILING			
14. DEVELOPMENT DEC. 31, 1983 (PR-511)			

## WORK CLASSIFICATION

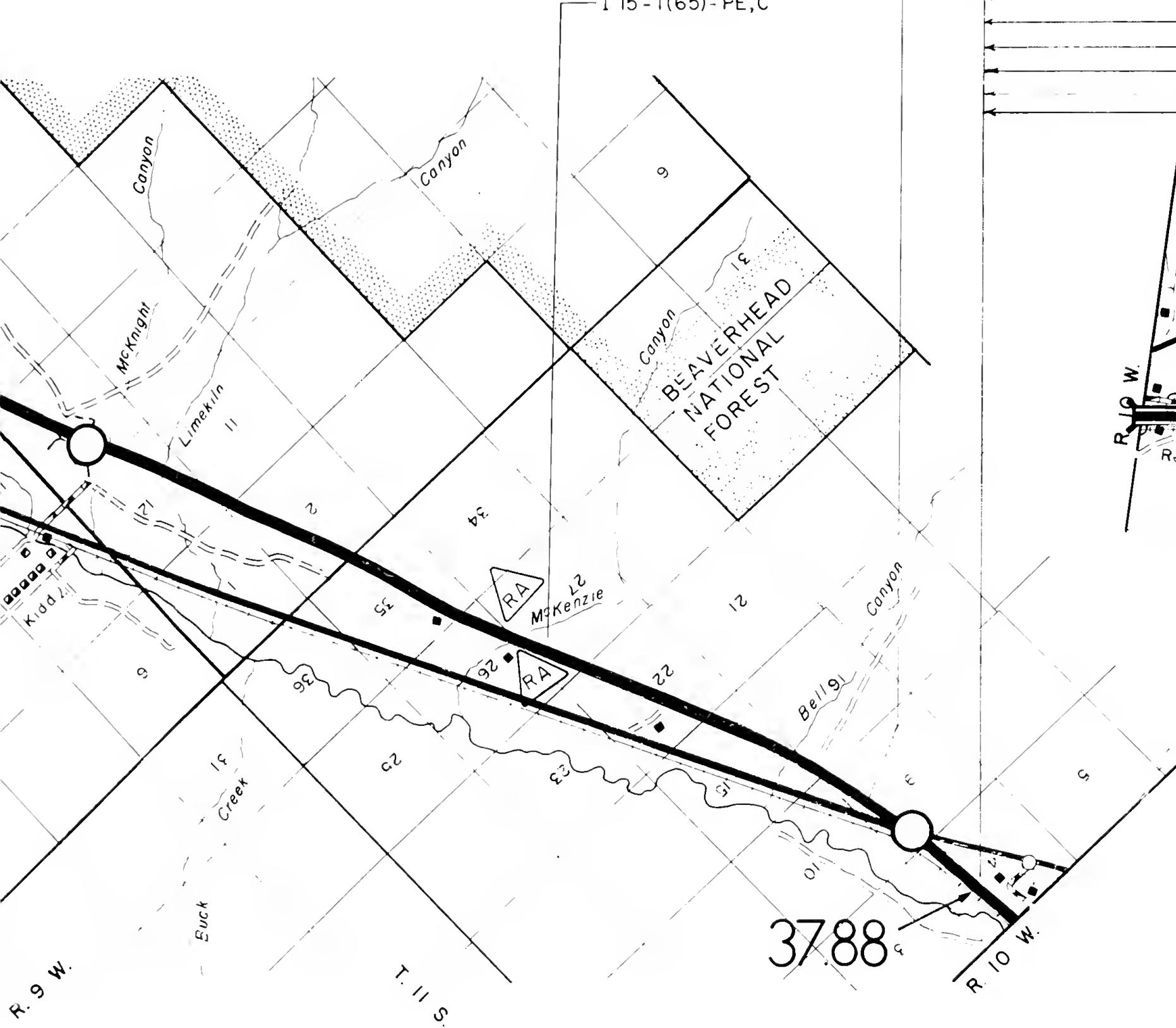
## ESTIMATED COSTS (\$1,000 DOLLARS)

1. PRELIMINARY ENGINEERING	175
2. RIGHT-OF-WAY A. ACQUISITION	0
B. RELOCATION	0
3. UTILITY ADJUSTMENT	0
4. EROSION CONTROL, CLEAR, GRUB, GRADE, DRAIN, MINOR STR.	22,387
5. SUBBASE; BASE; SURFACING; SHOULDERS	12,969
6. R.R. GRADE SEPARATIONS	318
7. HIGHWAY GRADE SEPARATIONS WITHOUT RAMPS	3,672
8. INTERCHANGES	3,516
9. OTHER BRIDGES, TUNNELS AND WALLS	444
10. TRAFFIC CONTROL DEVICES	3,366
11. WEIGH STATIONS, PEDESTRIAN AND BICYCLE FACILITIES	0
12. SAFETY WORK ON COMPLETED SECTIONS	0
13. NOISE ABATEMENT MEASURES	0
14. ROADSIDE IMPROVEMENTS A. LANDSCAPING PLANTING	0
B. REST AREAS AND OVERLOOKS	0
15. ALL OTHER ITEMS: MAINT TRAF., TRAINING, MOBIL., ETC.	2,386
16. SUBTOTAL, LINE 4 THRU 15	49,058
17. CONSTRUCTION ENGINEERING & CONTINGENCIES, 15% OF LINE 16	7,359
18. TOTAL COSTS OF CONSTRUCTION, LINES 16 AND 17	56,417
19. TOTAL ESTIMATE COST, LINES 1, 2, 3 AND 18	56,592



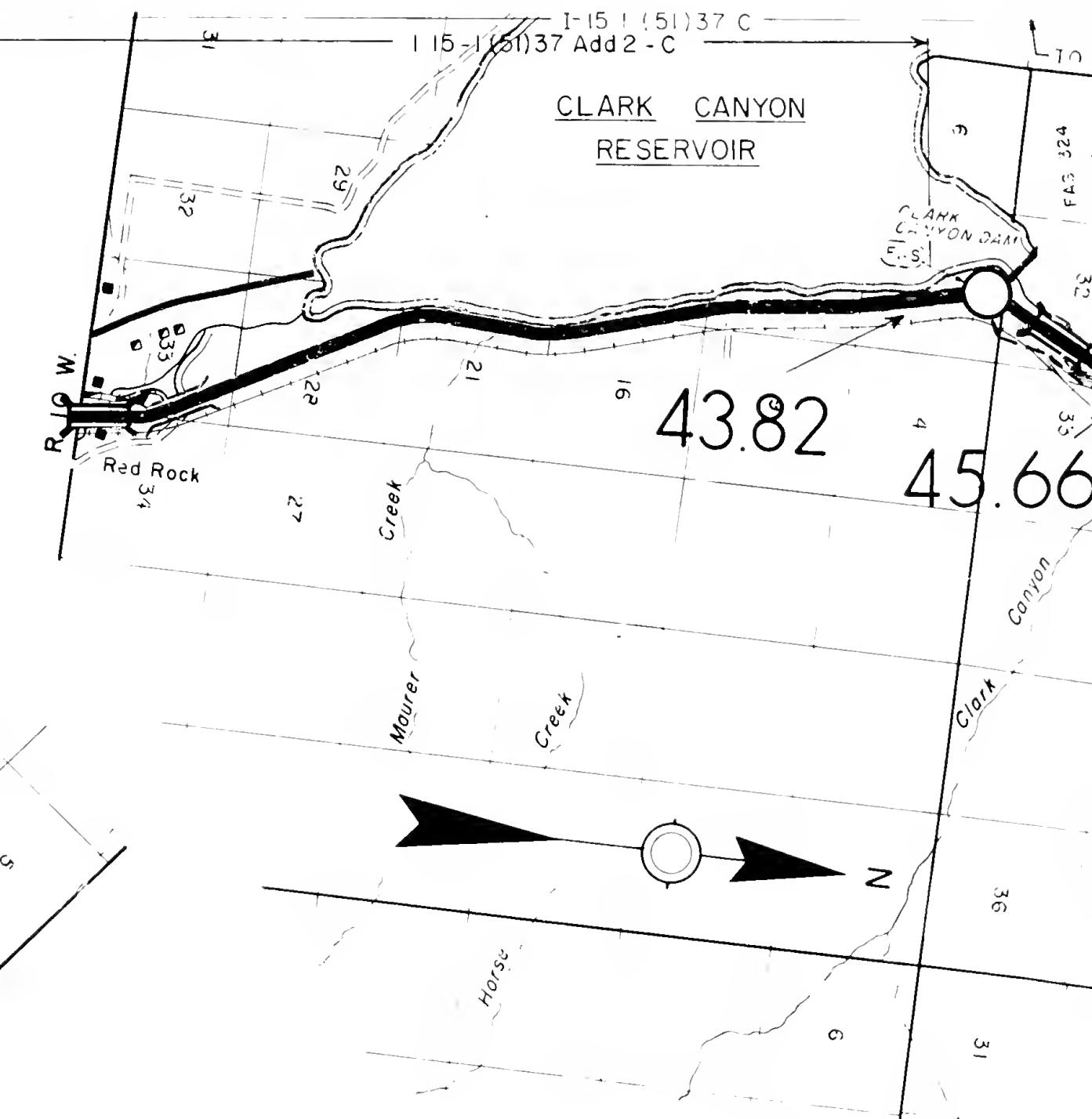


I-15-1-(22) 23 R-1C  
(42) 23-C (152 mi Rd, Str, Fence, Sign)

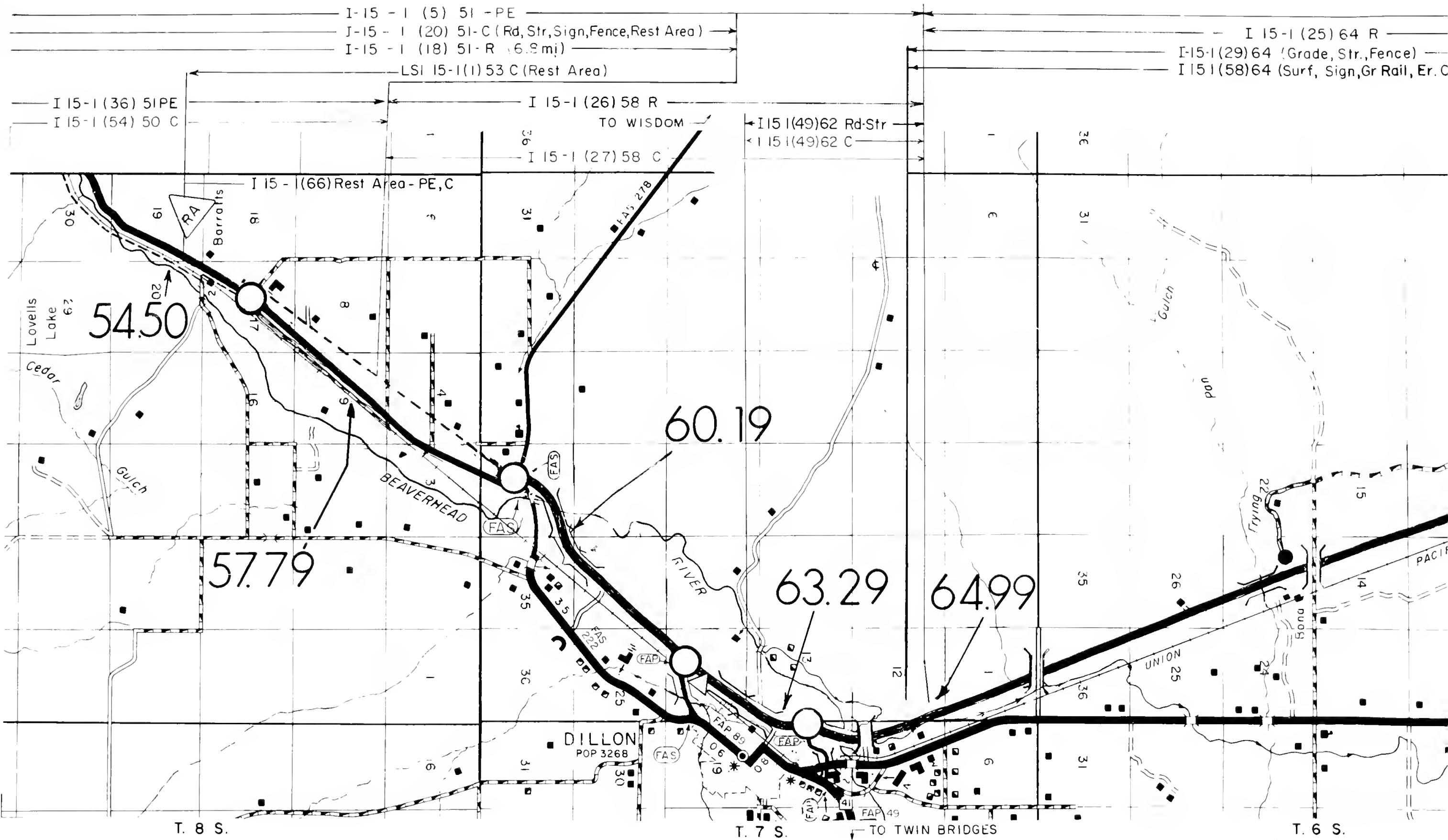


I 15-1 (4) 36 - E

- I 15-1(10) 37 - R
- I 15-1(11) 37 - C (7.8 mi - Rdwy-Str)
- I 15-1(15) 37 - C (Signing)
- I 15-1(16) 37 - C (Seeding)
- I 15 1(32) 37 PE
- I 15 1(38) 37 R







I - IG 15 - I (6) 65 - E

64 R  
Str., Fence)  
gn, Gr Rail, Er. Cont.)

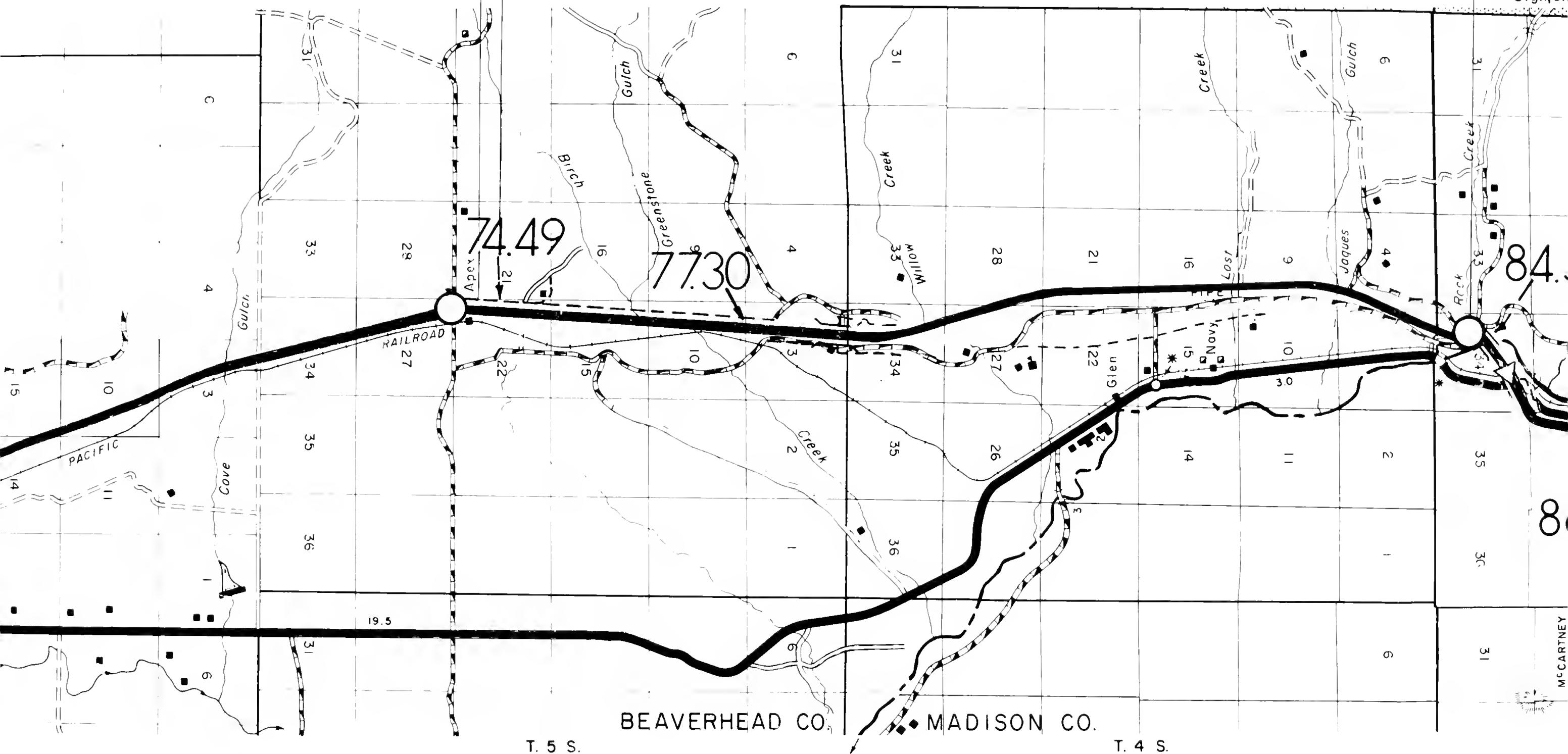
I 15 - I (28) 75 - R

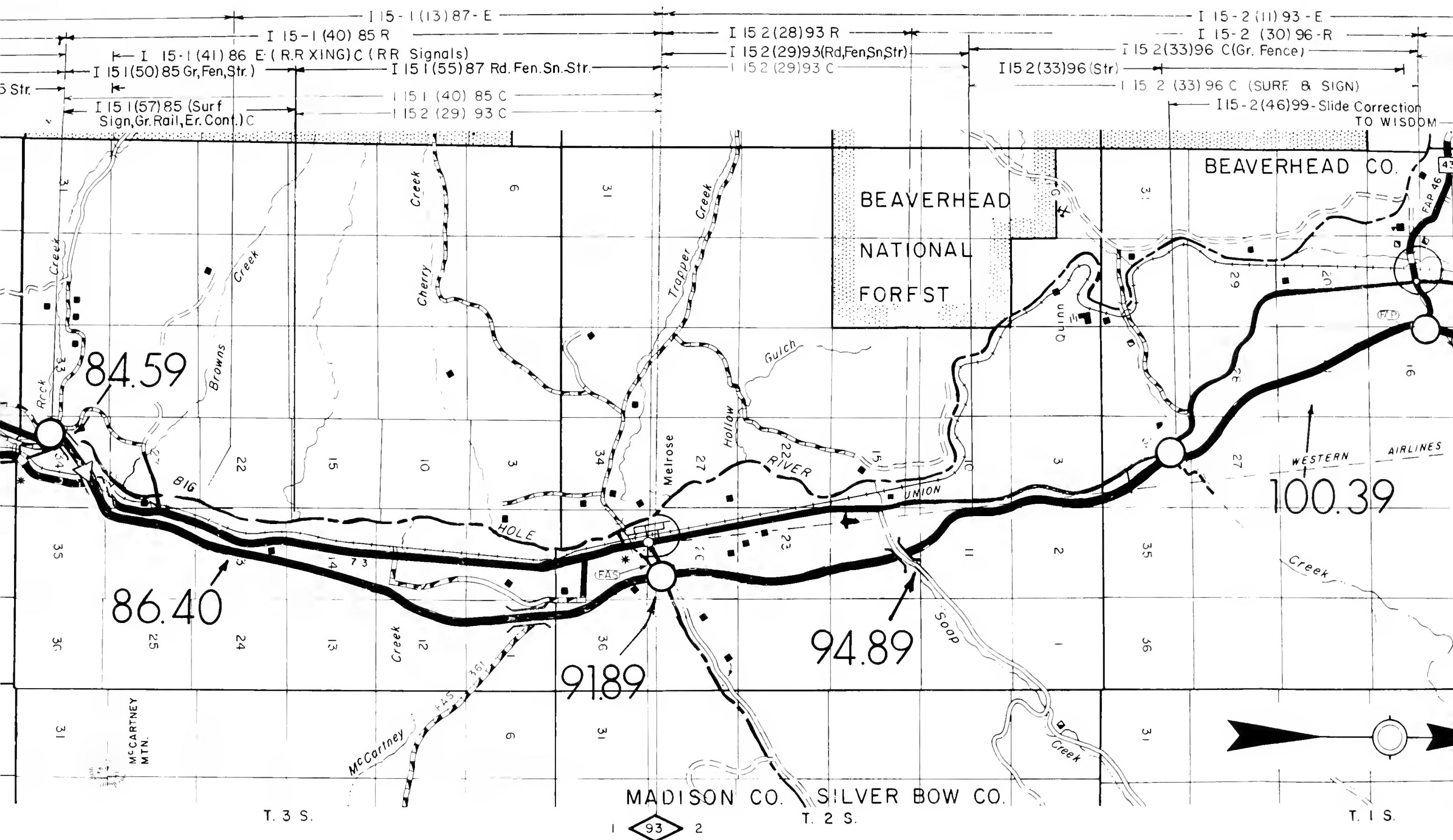
I 15 I (30) 75 (Gr, Str, Fence)

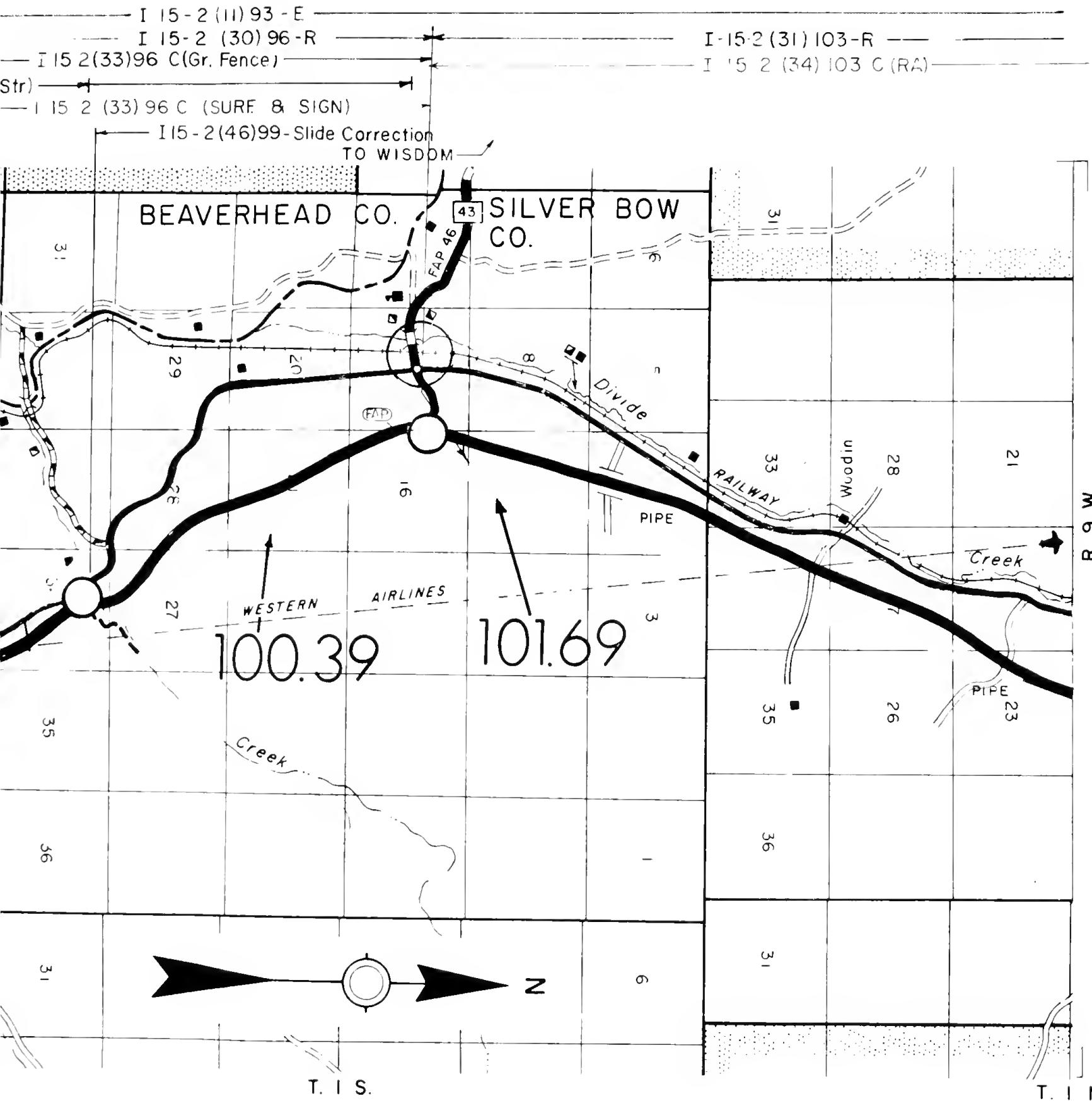
I 15 I (59) 75 (Surf. Sign Gr. Rail Er. Cont.)

I 15 I (56) 85 Str.

I 15 I (5)  
Sign, Gr.



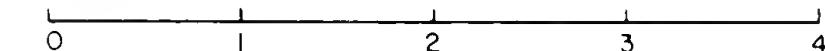




## LEGEND FOR INTERSTATE ROUTES

- INTERSTATE LOCATION STEP 4 - 5** (Solid black line)
- INTERSTATE LOCATION STEP 1 - 2 - 3** (Dashed black line)
- INTERCHANGE** (Circle with a dot)
- HIGHWAY GRADE SEPARATION - NO CONNECTION** (Horizontal line with a gap)
- RAILROAD GRADE SEPARATION** (Horizontal line with a vertical triangle)
- COMBINATION HIGHWAY - RAILROAD GRADE SEPARATION** (Horizontal line with a vertical triangle and a gap)
- OTHER BRIDGE** (Horizontal line with a small bridge icon)
- TUNNEL** (Horizontal line with a dashed gap)
- TOLL** (Dashed line)
- FRONTAGE ROAD** (Dashed line)
- TERMINATED CROSS ROAD** (Dot)
- INTERSECTION AT-GRADE** (Diamond)
- URBAN AREA BOUNDARY** (U-shaped line)
- POST MILEAGE** (Diamond with a number)
- ROUTE SECTIONS** (Diamond with a number)

SCALE IN MILES

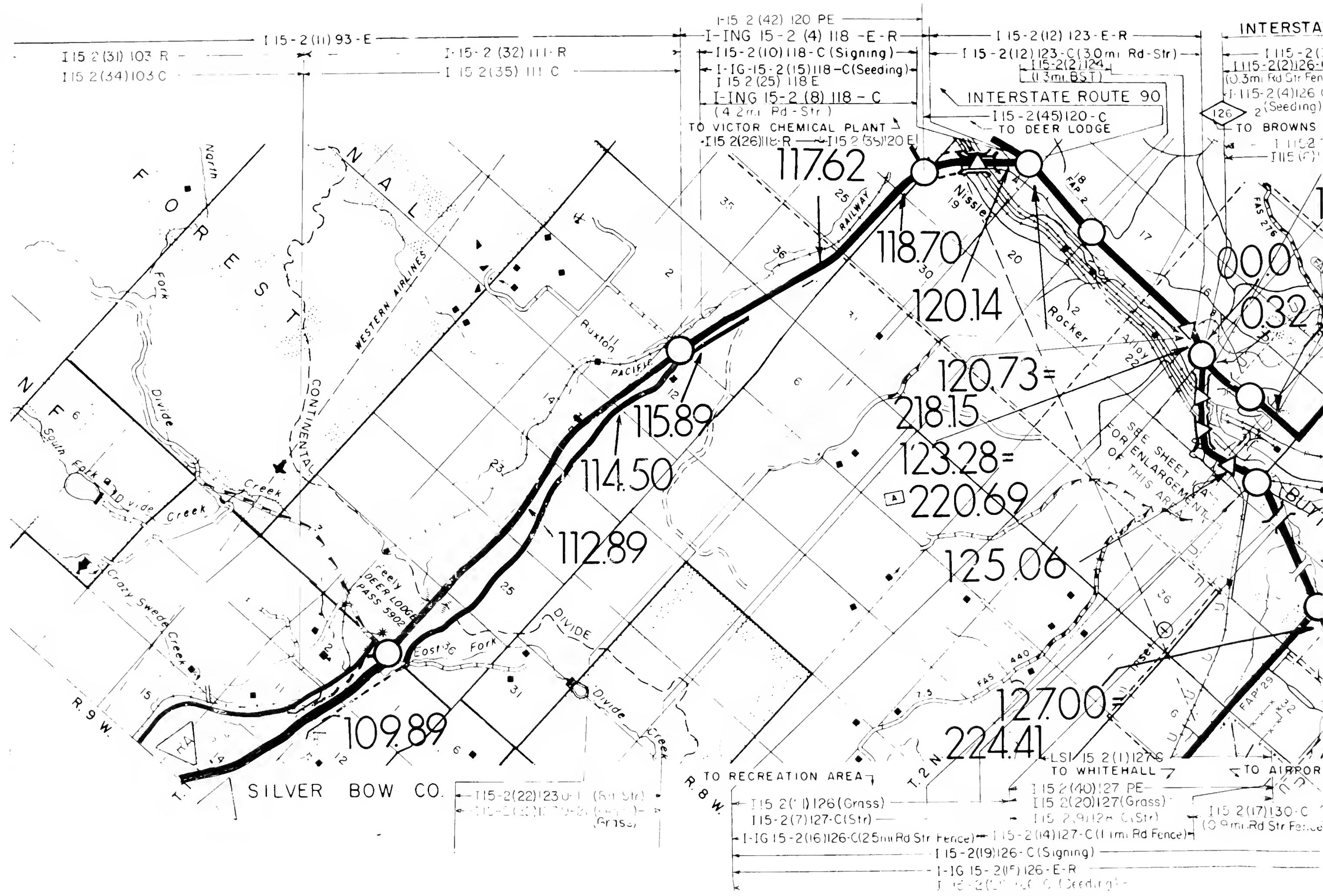


# MONTANA

INTERSTATE ROUTE 15

Sheet 2 of 8

Date DECEMBER 31, 1975



Map showing the location of the CO. DIVIDE (Continental Divide) in the SILVER BOW and WALKERVILLE areas. The map includes Interstate Route 90 (I-90) and Interstate Route 15 (I-15) with various route numbers and labels. Key features include the 'CO. DIVIDE' (Continental Divide), 'SILVER BOW' and 'WALKERVILLE' areas, 'Moulton Reservoir', 'Headwaters Creek', 'Buffalo Creek', 'SHEEPSHEAD MOUNTAIN', 'ELK PARK PASS', 'BUTTE', 'BISON', 'Sawmill Gulch', and 'Woodville'. The map includes a grid system, elevation markers, and a north arrow. Handwritten numbers and arrows are overlaid on the map, such as '139', '000', '032', '131.93', '138.79', '142.44', '132.44', '128.30', '225.91', '128.88', '128.43', '226.03', and '134'. A large arrow points from the 'CO. DIVIDE' area towards the right side of the map.

— I 15 3 (11) 141 - E -  
I 15 3 (17) 144 R -  
— I 15-3 (26) 144 - C —

- I 15-3(12) 150-E  
I 15-3 (18) 150 R -

I-15-3(13)157-E I-15-3(2)155  
I-15-3(14)157-R I-15-3(15)155-R  
I-15-3(29)160 C(STR) I-15-3(31)155STR  
I-15-3(32)157 C(STR)  
I-15-3(29)160 C(STR)

148.89

~~153.50~~

156.16

160.40

162.06

JEFFERSON CO.

I-15 3(2) 155 E  
 I-15 3(4) 155 R  
 I-15 3(14) 155 R  
 I-15 3(20) 155 C (Gr. Surf, PMB, Sn, Fn, Str)  
 I-15 3(21) 162 (Gr Str) C  
 I-15 3(27) 162 (Surf Sn) C

I-15 3(31) 155 STR  
 I-15 3(3) 155 STR  
 I-15 3(3) 155 STR



## LEGEND FOR INTERSTATE ROUTES

- INTERSTATE LOCATION STEP 4-5**
- INTERSTATE LOCATION STEP 1-2-3**
- INTERCHANGE**
- HIGHWAY GRADE SEPARATION - NO CONNECTION**
- RAILROAD GRADE SEPARATION**
- COMBINATION HIGHWAY-RAILROAD GRADE SEPARATION**
- OTHER BRIDGE**
- TUNNEL**
- TOLL**
- FRONTEAGE ROAD**
- TERMINATED CROSS ROAD**
- INTERSECTION AT-GRADE**
- URBAN AREA BOUNDARY**
- POST MILEAGE**
- ROUTE SECTIONS**

SCALE IN MILES

0 1 2 3 4

# MONTANA

INTERSTATE ROUTE 15

Sheet 3 of 8

Date DECEMBER 31, 1975

INTERSTATE ROUTE 115

(COMPLETE ROUTE ON THIS SHEET.)







RUN DATE: 08/02/84

## 1985 INTERSTATE COST ESTIMATE

LE15R85A  
PAGE: 1

STATE: MONTANA

CODE: 30

ROUTE: I 090

TABLE 8  
DESIGN CLASSIFICATION AND COST ESTIMATE  
BY ESTIMATE SECTION

ITEM								ESTIMATE SECTION MILE POST
1. FINANCE CODE	.00	27.30	32.40	35.00	38.42	38.60		
2. SECTION LENGTH, MILES (0.01)	20	22	22	20	21	21		
3. CLASS: RURAL (R) OR URBAN AREA I.D. (NAME AND CODE)	27.30	5.10	2.60	3.40	.20	1.60		
4. MILEAGE INCREMENT: CODE (1, 2 OR 3)	000	R	R	000	R	R		
5. ROUTE SIGNIFICANCE: CODE (N OR L)		1	1		1	1		
6. DESIGN SPEED(V)		N	N		N	N		
7. BASE YEAR TRAFFIC (1982 ADT)		60	70		70	70		
8. TRAFFIC	0	3.090	3.090	0	3.860	3.860		
A. DESIGN YEAR (19 ) OR (20 )		4	4		5	5		
B. ADT DESIGN YEAR		5,920	5,920		7,620	7,620		
C. DHV DESIGN YEAR		800	800		1,040	1,040		
D. D. DIRECTION DISTRIBUTION FACTOR		55	55		55	55		
E. T. % TRUCK DESIGN YEAR DHV		18	18		18	18		
F. T. % TRUCK DESIGN YEAR (ADT)		24	24		24	24		
9. NO. LANES TO BE CONSTRUCTED THIS ESTIMATE		0	0		0	0		
10. ULTIMATE NO. THROUGH TRAFFIC LANES		4	4		4	4		
11. TYPICAL CROSS SECTION REFERENCE	30	30	30	30	50	50		
12. RIGHT-OF-WAY WIDTH: PREVAILING	300	300	400	400	300	300		
13. MEDIAN WIDTH: PREVAILING	68	46	168	168	68	68		
14. DEVELOPMENT DEC. 31, 1983 (PR-511)	3A20	3A20	3A20	3A20	3A20	3A20		

## WORK CLASSIFICATION

					ESTIMATED COSTS (1,000 DOLLARS)		
1. PRELIMINARY ENGINEERING		10	5		0	0	
2. RIGHT-OF-WAY	A. ACQUISITION	0	0		0	0	
	B. RELOCATION	0	0		0	0	
3. UTILITY ADJUSTMENT		0	0		0	0	
4. EROSION CONTROL, CLEAR, GRUB, GRADE, DRAIN, MINOR STR.		0	0		4	34	
5. SUBBASE; BASE; SURFACING; SHOULDERS		2,203	1,134		99	840	
6. R.R. GRADE SEPARATIONS		0	0		0	0	
7. HIGHWAY GRADE SEPARATIONS WITHOUT RAMPS		0	0		0	0	
8. INTERCHANGES		0	0		0	0	
9. OTHER BRIDGES, TUNNELS AND WALLS		417	215		0	0	
10. TRAFFIC CONTROL DEVICES		183	94		1	6	
11. WEIGH STATIONS, PEDESTRIAN AND BICYCLE FACILITIES		0	0		0	0	
12. SAFETY WORK ON COMPLETED SECTIONS		0	0		0	0	
13. NOISE ABATEMENT MEASURES		0	0		0	0	
14. ROADSIDE IMPROVEMENTS	A. LANDSCAPING PLANTING	0	0		0	0	
	B. REST AREAS AND OVERLOOKS	0	0		0	0	
15. ALL OTHER ITEMS: MAINT TRAF., TRAINING, MOBIL., ETC.		0	178	92	5	47	
16. SUBTOTAL, LINE 4 THRU 15		0	2,981	1,535	109	927	
17. CONSTRUCTION ENGINEERING & CONTINGENCIES, 15% OF LINE 16		0	447	230	16	139	
18. TOTAL COSTS OF CONSTRUCTION, LINES 16 AND 17		0	3,428	1,765	125	1,066	
19. TOTAL ESTIMATE COST, LINES 1, 2, 3 AND 18		0	3,438	1,770	125	1,066	

RUN DATE: 08/02/84

## 1985 INTERSTATE COST ESTIMATE

LE15R85A  
PAGE: 2

STATE: MONTANA

CODE: 30

ROUTE: I 090

TABLE 8  
DESIGN CLASSIFICATION AND COST ESTIMATE  
BY ESTIMATE SECTION

ITEM	40.20	43.10	142.64	248.30	339.43	348.76
1. FINANCE CODE	21	20	20	20	22	20
2. SECTION LENGTH, MILES (0.01)	2.90	99.60	97.80	91.10	9.30	99.10
3. CLASS: RURAL (R) OR URBAN AREA I.D. (NAME AND CODE)	R	000	000	000	R	000
4. MILEAGE INCREMENT: CODE (1, 2 OR 3)	1				1	
5. ROUTE SIGNIFICANCE: CODE (N OR L)	N				N	
6. DESIGN SPEED(V)	70				70	
7. BASE YEAR TRAFFIC (1982 ADT)	3,860	0	0	0	4,440	0
8. TRAFFIC A. DESIGN YEAR (19 OR 20)	5				5	
B. ADT DESIGN YEAR	7,620				9,800	
C. DHV DESIGN YEAR	1,040				1,200	
D. D. DIRECTION DISTRIBUTION FACTOR	55				55	
E. T. % TRUCK DESIGN YEAR DHV	18				20	
F. T. % TRUCK DESIGN YEAR (ADT)	24				26	
9. NO. LANES TO BE CONSTRUCTED THIS ESTIMATE	0				2	
10. ULTIMATE NO. THROUGH TRAFFIC LANES	4				4	
11. TYPICAL CROSS SECTION REFERENCE	50				20	
12. RIGHT-OF-WAY WIDTH: PREVAILING	300				350	
13. MEDIAN WIDTH: PREVAILING	68				46	
14. DEVELOPMENT DEC. 31, 1983 (PR-511)	3A20				2A2F	

## WORK CLASSIFICATION

ITEM	ESTIMATED COSTS (1,000 DOLLARS)
1. PRELIMINARY ENGINEERING	40
2. RIGHT-OF-WAY A. ACQUISITION	0
B. RELOCATION	0
3. UTILITY ADJUSTMENT	0
4. EROSION CONTROL, CLEAR, GRUB, GRADE, DRAIN, MINOR STR.	62
5. SUBBASE; BASE; SURFACING; SHOULDER	1,532
6. R.R. GRADE SEPARATIONS	0
7. HIGHWAY GRADE SEPARATIONS WITHOUT RAMPS	0
8. INTERCHANGES	0
9. OTHER BRIDGES, TUNNELS AND WALLS	0
10. TRAFFIC CONTROL DEVICES	11
11. WEIGH STATIONS, PEDESTRIAN AND BICYCLE FACILITIES	0
12. SAFETY WORK ON COMPLETED SECTIONS	0
13. NOISE ABATEMENT MEASURES	0
14. ROADSIDE IMPROVEMENTS A. LANDSCAPING PLANTING	0
B. REST AREAS AND OVERLOOKS	0
15. ALL OTHER ITEMS: MAINT TRAF., TRAINING, MOBIL., ETC.	86
16. SUBTOTAL, LINE 4 THRU 15	1,691
17. CONSTRUCTION ENGINEERING & CONTINGENCIES, 15% OF LINE 16	254
18. TOTAL COSTS OF CONSTRUCTION, LINES 16 AND 17	1,945
19. TOTAL ESTIMATE COST, LINES 1, 2, 3 AND 18	1,945

RUN DATE: 08/02/84

## 1985 INTERSTATE COST ESTIMATE

LE15R85A  
PAGE: 3

STATE: MONTANA

CODE: 30

ROUTE: I 090

TABLE 8  
DESIGN CLASSIFICATION AND COST ESTIMATE  
BY ESTIMATE SECTION

ITEM	ESTIMATE SECTION	MILE POST	TOTAL		
1. FINANCE CODE	447.80	515.29	525.30	527.09	
2. SECTION LENGTH, MILES (0.01)	20	21	21	20	
3. CLASS: RURAL (R) OR URBAN AREA I, 0, (NAME AND CODE)	69.00	10.00	1.80	22.90	543.70
4. MILEAGE INCREMENT: CODE (1, 2 OR 3)	000	R	R	000	
5. ROUTE SIGNIFICANCE: CODE (N OR L)		N	N		
6. DESIGN SPEED(V)		70	70		
7. BASE YEAR TRAFFIC (1982 ADT)	0	2.020	2.020	0	
8. TRAFFIC A. DESIGN YEAR (19 ) OR (20 )		5	5		
B. ADT DESIGN YEAR		6.200	6.200		
C. DHV DESIGN YEAR		800	800		
D. D. DIRECTION DISTRIBUTION FACTOR		55	55		
E. T. % TRUCK DESIGN YEAR DHV		9	9		
F. T. % TRUCK DESIGN YEAR (ADT)		16	16		
9. NO. LANES TO BE CONSTRUCTED THIS ESTIMATE		0	0		
10. ULTIMATE NO. THROUGH TRAFFIC LANES		4	4		
11. TYPICAL CROSS SECTION REFERENCE	30	30			
12. RIGHT-OF-WAY WIDTH: PREVAILING	400	400			
13. MEDIAN WIDTH: PREVAILING	68	68			
14. DEVELOPMENT DEC. 31, 1983 (PR-511)	1A3F	1A3F			

WORK CLASSIFICATION	ESTIMATED COSTS (1,000 DOLLARS)			
1. PRELIMINARY ENGINEERING	0	0	55	
2. RIGHT-OF-WAY A. ACQUISITION	0	0	0	
B. RELOCATION	0	0	0	
3. UTILITY ADJUSTMENT	0	0	0	
4. EROSION CONTROL, CLEAR, GRUB, GRADE, DRAIN, MINOR STR.	638	112	4,381	
5. SUBBASE; BASE; SURFACING; SHOULDERS	2,728	481	13,525	
6. R.R. GRADE SEPARATIONS	0	0	0	
7. HIGHWAY GRADE SEPARATIONS WITHOUT RAMPS	0	0	563	
8. INTERCHANGES	0	0	1,330	
9. OTHER BRIDGES, TUNNELS AND WALLS	0	0	903	
10. TRAFFIC CONTROL DEVICES	27	5	798	
11. WEIGH STATIONS, PEDESTRIAN AND BICYCLE FACILITIES	0	0	0	
12. SAFETY WORK ON COMPLETED SECTIONS	0	0	0	
13. NOISE ABATEMENT MEASURES	0	0	0	
14. ROADSIDE IMPROVEMENTS A. LANDSCAPING PLANTING	0	0	0	
B. REST AREAS AND OVERLOOKS	0	0	0	
15. ALL OTHER ITEMS: MAINT TRAF., TRAINING, MOBIL., ETC.	0	205	36	1,288
16. SUBTOTAL, LINE 4 THRU 15	0	3,598	634	22,788
17. CONSTRUCTION ENGINEERING & CONTINGENCIES, 15% OF LINE 16	0	540	95	3,418
18. TOTAL COSTS OF CONSTRUCTION, LINES 16 AND 17	0	4,138	729	26,206
19. TOTAL ESTIMATE COST, LINES 1, 2, 3 AND 18	0	4,138	729	26,261

I-1G 90-1(10) 0-E

I-1G 90-1 (43) O - R

— I-1G-90-1(63)O (Clearing)

— F-90-I (48)O Gr PMB Sn Sd 4 2 Mi

— I 90 I (48)O (Str) —

— 1-90-1(48)O C —

1007 (10) 0 0

I 90 0(1)0 Safety

Entire Rte.  
Loc. 1/820 Rte. 1 Mat.

190-1(80)0 Remove Med.

\*\*Applies to all str in Mineral

- I 90-1 (64) 4 (Clearing)

- I-IG-90-1(49)4 (6.7 Gr, PMB,Str,Fen,Sign,Seed)

— I-1G-90 1(49)4 St

I 90-1 (46) II-R-

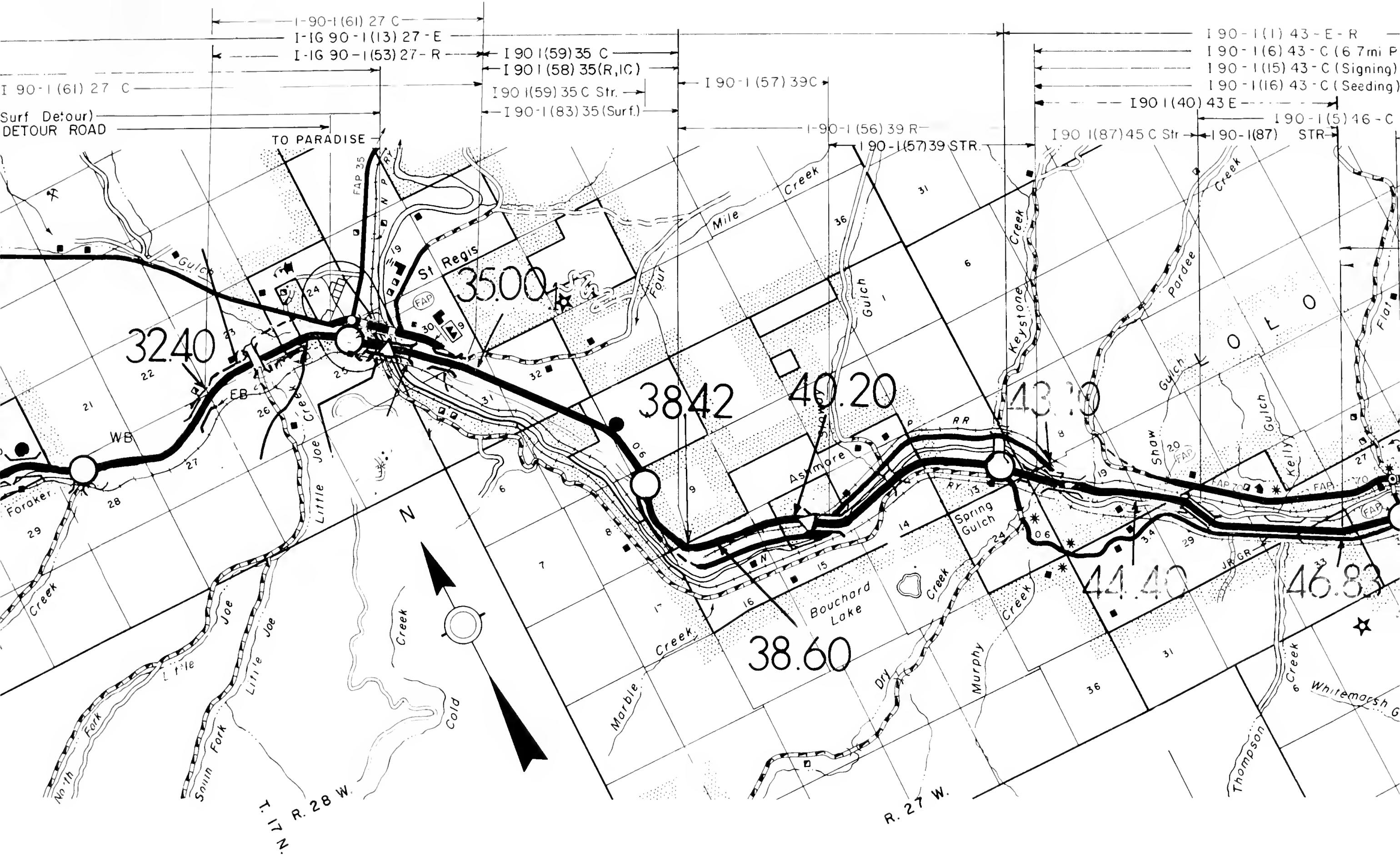
EMP I 90 I(52)I I Str.-

- I 90 I (52) II (Rd Sn Fen.)

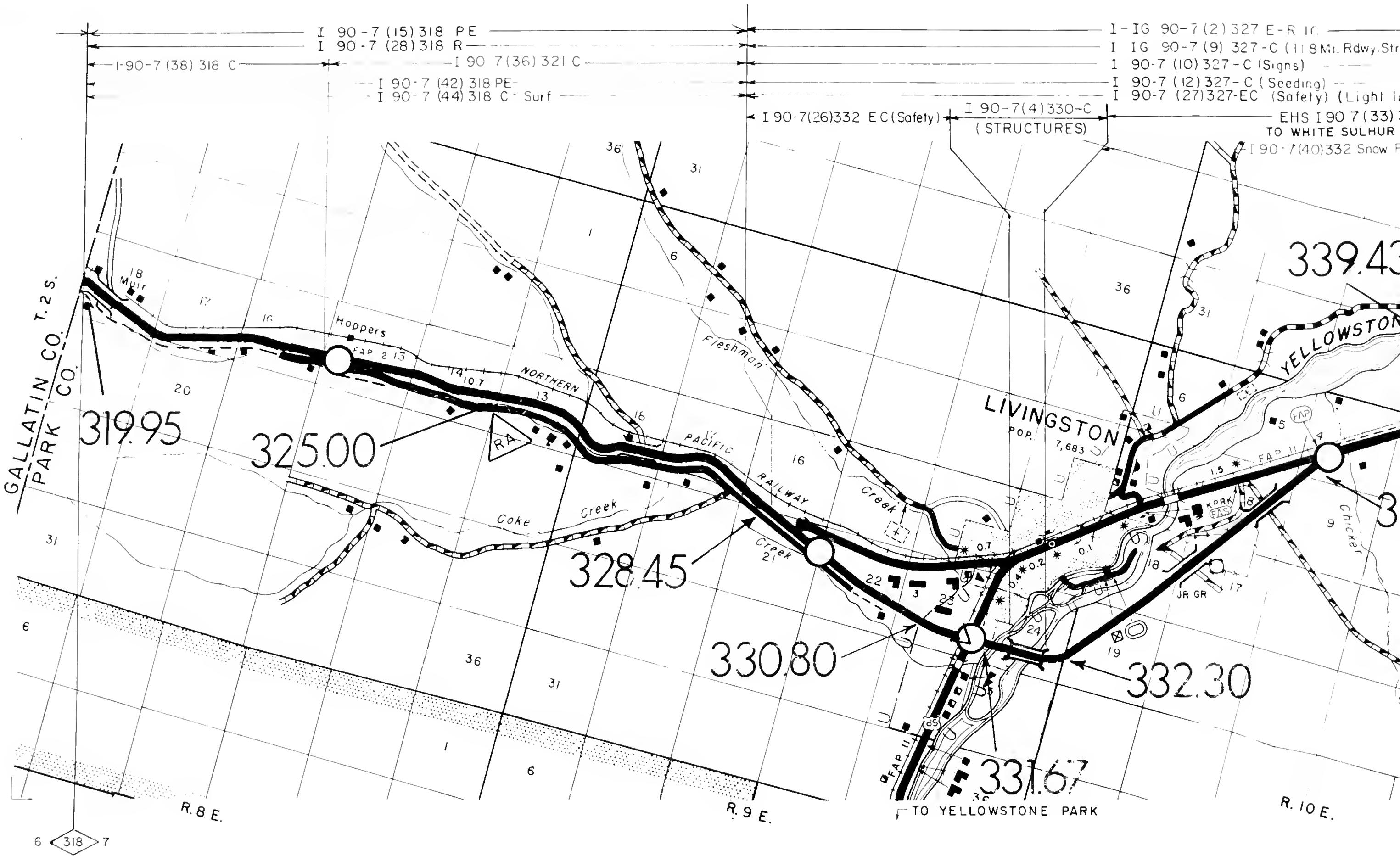
- 1-90-1(52) 11 C -

- 1-90-1(78) 11C (CON PAV)









E-R 10.  
-C (118 Mi. Rdwy. Str. Fence RR Line Change. Seal Coat)  
Signs)  
Seeding)  
(Safety) (Light Intrgs)  
- EHS I 90-7 (33) 327 (Safety)  
TO WHITE SULHUR SPRINGS

I 90-7 (40) 332 Snow Fence

339.43

YELLOWSTONE

MISSION

335.60

Chicker

Poison

Creek

F.A.S. 295

R. 10 E.

PARK CO.

10.0

TO RURAL AREA

R. 11 E.

6.2

TO RURAL AREA

R. 12 E.

3.6

5

6

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32

33

34

35

36

25

30

29

28

27

26

FAP

FAS

FAP 295

MISSION

Elton

Pipe

6

5

4

3

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0

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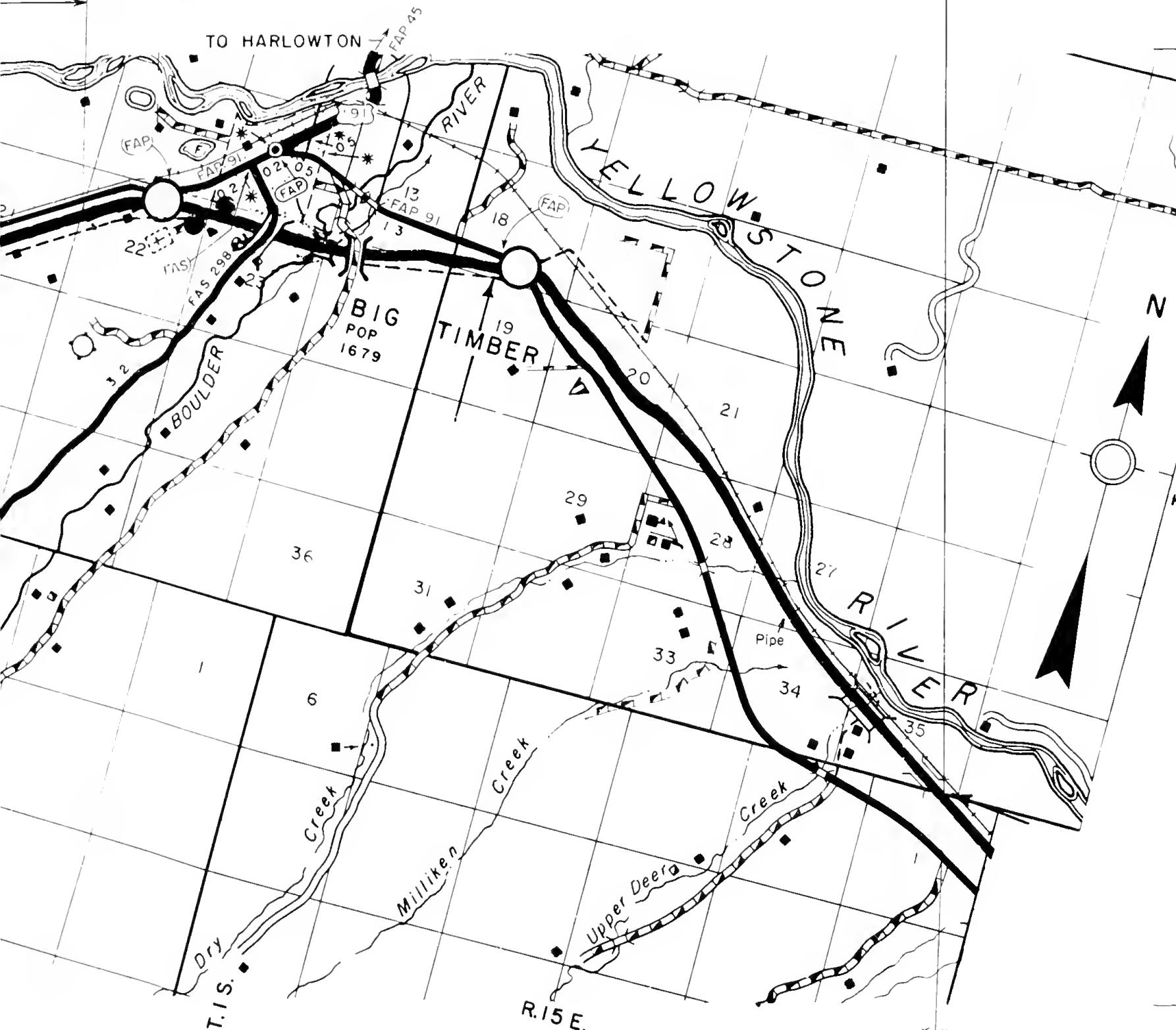
173



I 90 7 (16) 364 PE

I 90 7(29) 364 R

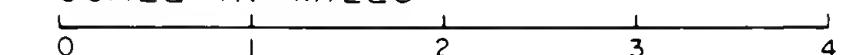
I-90-7(35) 364 C



## LEGEND FOR INTERSTATE ROUTES

- INTERSTATE LOCATION STEP 4 - 5
- INTERSTATE LOCATION STEP 1 - 2 - 3
- INTERCHANGE
- HIGHWAY GRADE SEPARATION - NO CONNECTION
- RAILROAD GRADE SEPARATION
- COMBINATION HIGHWAY - RAILROAD GRADE SEPARATION
- OTHER BRIDGE
- TUNNEL
- TOLL
- FRONTAGE ROAD
- TERMINATED CROSS ROAD
- INTERSECTION AT-GRADE
- URBAN AREA BOUNDARY
- POST MILEAGE
- ROUTE SECTIONS

SCALE IN MILES



# MONTANA

INTERSTATE ROUTE 90

Sheet 7 of 11

Date December 31, 1975

- I - IG 90-9(8) 471 - E -

- I 90-9(15)483- R -

I 90 - 9 (17) 483-C (Rd.- Fence - 6.2 Mi) —  
I 90 - 9 (30) 483-C (Surf, Light, Sign) —

36 31  
BASE LINE

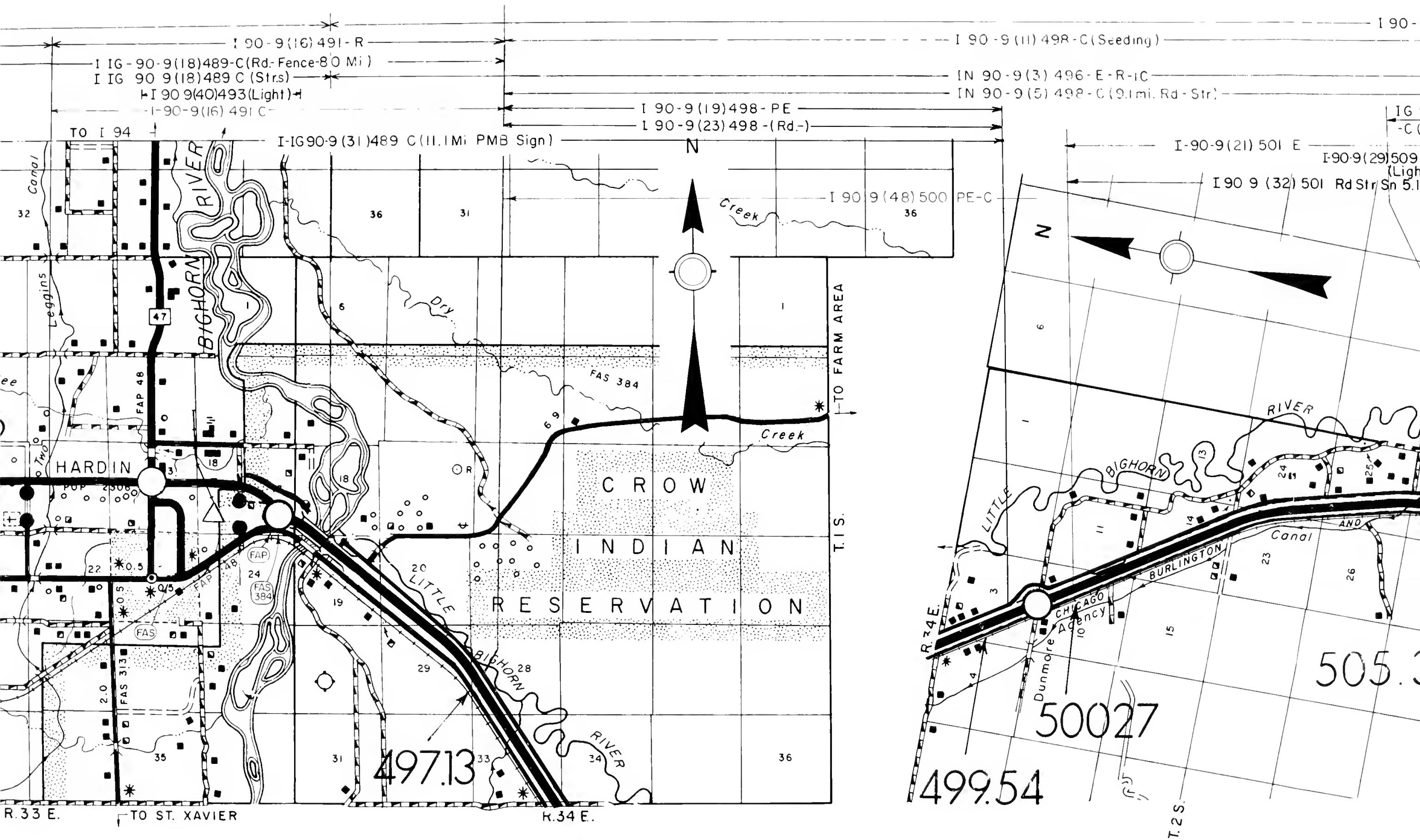
$$\frac{478.00}{477.00} \text{ hr. All}$$

482.90

R 3 | E

R 32 F

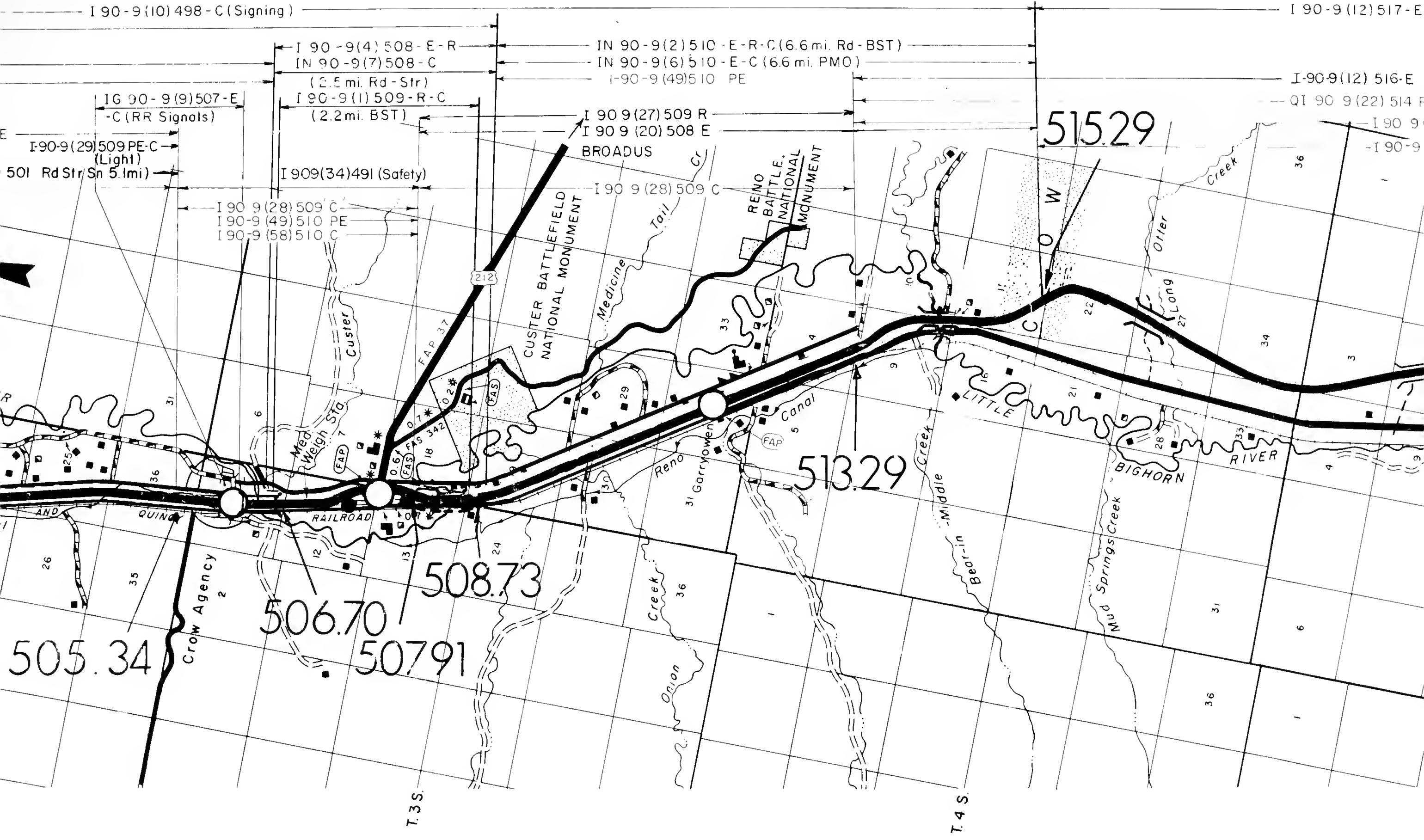
R 33 E



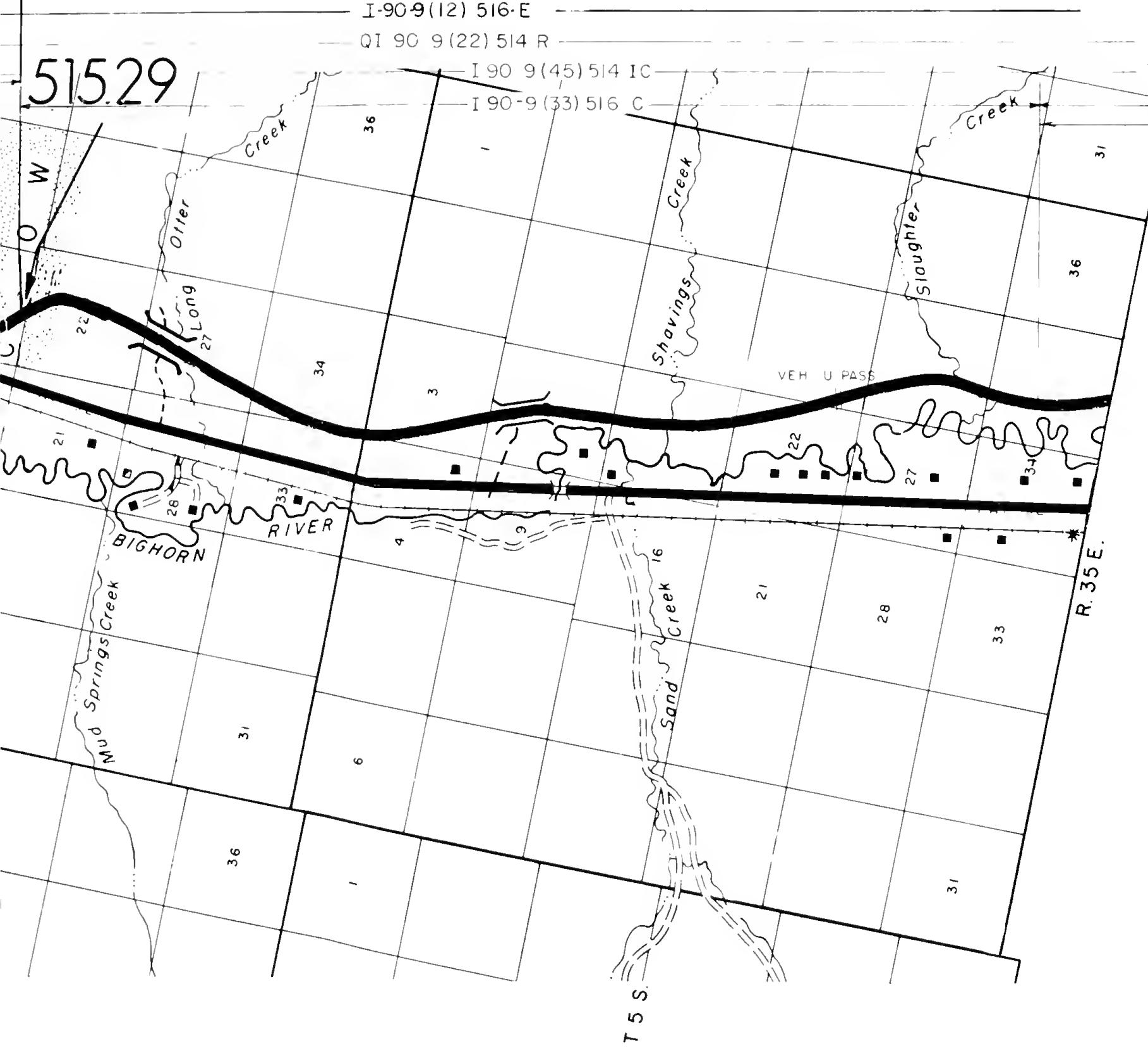
BIG HORN CO.

I 90-9(10)498-C (Signing)

I 90-9(12)517-E



I 90-9(12)517-E



## LEGEND FOR INTERSTATE ROUTES

- INTERSTATE LOCATION STEP 4 - 5
- INTERSTATE LOCATION STEP 1 - 2 - 3
- INTERCHANGE
- HIGHWAY GRADE SEPARATION - NO CONNECTION
- RAILROAD GRADE SEPARATION
- COMBINATION HIGHWAY - RAILROAD GRADE SEPARATION
- OTHER BRIDGE
- TUNNEL
- TOLL
- FRONTAGE ROAD
- TERMINATED CROSS ROAD
- INTERSECTION AT-GRADE
- URBAN AREA BOUNDARY
- POST MILEAGE
- ROUTE SECTIONS

SCALE IN MILES

0 1 2 3 4

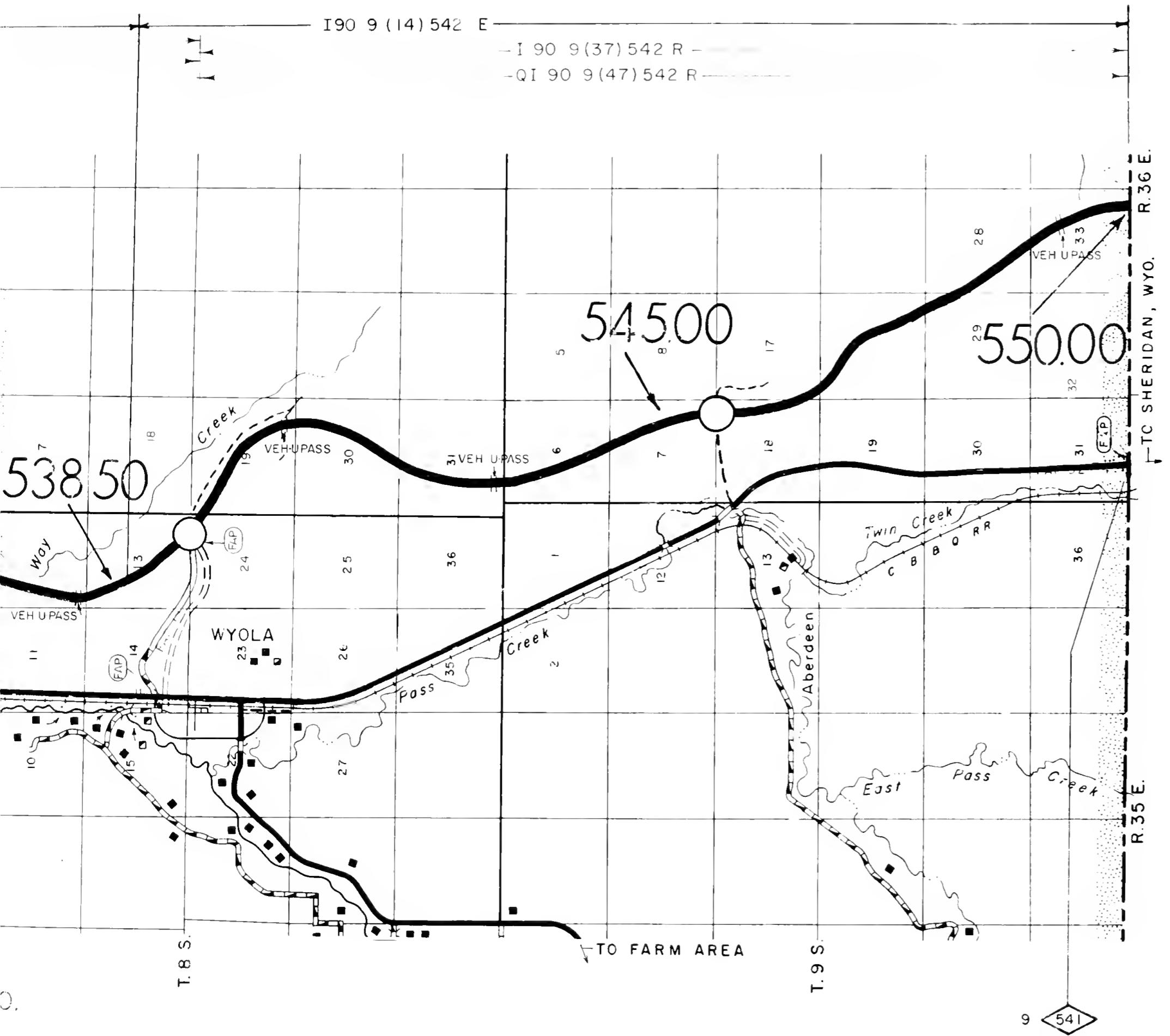
# MONTANA

INTERSTATE ROUTE 90

Sheet 10 of 11

Date December 31, 1975

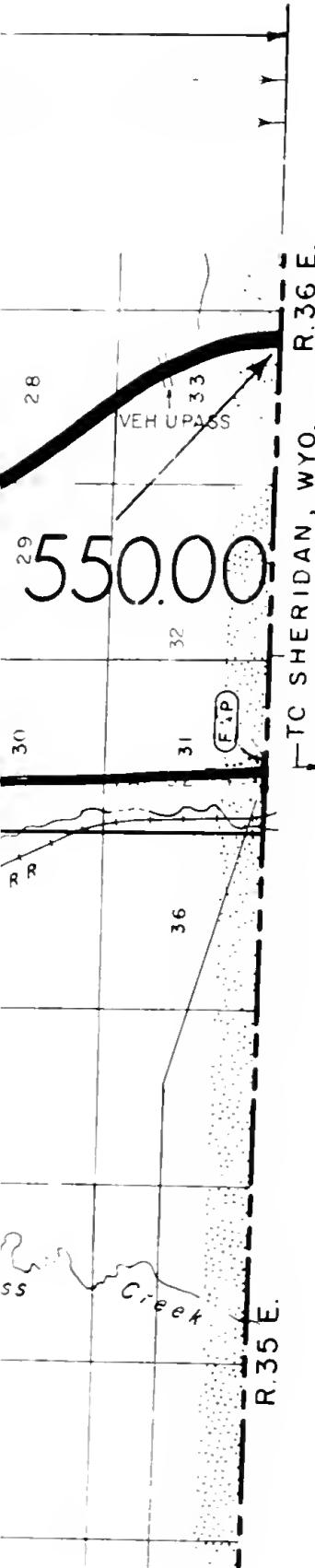




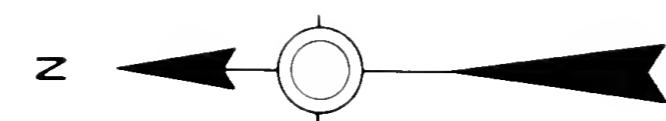
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N

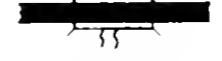
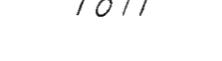
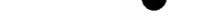
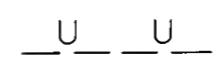
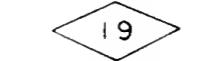




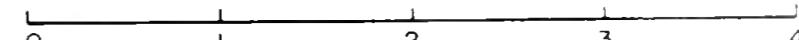
W Y O M I N G



## LEGEND FOR INTERSTATE ROUTE 90

-  INTERSTATE LOCATION STEP 4
-  INTERSTATE LOCATION STEP 1-3
-  INTERCHANGE
-  HIGHWAY GRADE SEPARATION - NO CONNECTION
-  RAILROAD GRADE SEPARATION
-  COMBINATION HIGHWAY - RAILROAD GRADE SEPARATION
-  OTHER BRIDGE
-  TUNNEL
-  TOLL BRIDGE, TUNNEL, HIGHWAY OR COMBINATION
-  FRONTAGE ROAD
-  TERMINATED CROSS ROAD
-  INTERSECTION AT-GRADE
-  URBAN AREA BOUNDARY
-  POST MILEAGE
-  ROUTE SECTIONS

SCALE IN MILES



# MONTANA

INTERSTATE ROUTE 90

Sheet II of II







RUN DATE : 07/23/84

1985 INTERSTATE COST ESTIMATE  
 TABLE C-1 - COST ESTIMATES BY ROUTES AND STATE TOTAL  
 STATE : MONTANA  
 (INCLUDES ALL MILEAGE AND ALL COSTS TO COMPLETE THE SYSTEM. ALL FINANCE CODES)

LE15R93A  
 PAGE NO. : 1

INTERSTATE ROUTE NUMBER	015	090	T O T A L
LENGTH, MILES	395.24	543.70	938.94

## WORK CLASSIFICATION

1. PRELIMINARY ENGINEERING	175*	55*	230
2. R.O.W. A. ACQUISITION	0*	0*	0
B. RELOCATION	0*	0*	0
3. UTILITY ADJUSTMENTS	0*	0*	0
4. EROSION CONTROL, CLEAR, GRUB, GRADE, DRAIN, MINOR STRUCT.	22,387*	4,381*	26,768
5. SUBBASE, BASE, SURFACING, AND SHOULDERES	12,969*	13,525*	26,494
6. R. R. GRADE SEPARATIONS	318*	0*	318
7. HIGHWAY GRADE SEPARATIONS WITHCUT RAMPS	3,672*	563*	4,235
8. INTERCHANGES	3,516*	1,330*	4,846
9. OTHER BRIDGES, TUNNELS AND WALLS	444*	903*	1,347
10. TRAFFIC CONTROL DEVICES	3,366*	798*	4,164
11. WEIGH STATIONS, PEDESTRIAN AND BICYCLE FACILITIES	0	0	0
12. SAFETY WORK ON COMPLETED SECTIONS	0	0	0
13. NOISE ABATEMENT MEASURES	0	0	0
14. ROADSIDE IMPROVEMENT A. LANDSCAPE PLANTING	0	0	0
B. REST AREAS AND OVERLOOKS	0	0	0
15. OTHER ITEMS: MAINT. OF TRAF., TRAINING, MOBIL., ETC.	2,386	1,288	3,674
16. SUBTOTAL, LINE 4 THRU 15	49,058	22,788	71,846
17. CONSTRUCTION ENG'R AND CONTINGENCIES - 15% OF LINE 16	7,359	3,418	10,777
18. TOTAL COST OF CONST., LINES 16 AND 17	56,417	26,206	82,623
19. TOTAL ESTIMATE COST. LINES 1, 2, 3 AND 18	56,592	26,261	82,853

RUN DATE : 07/23/84

1985 INTERSTATE COST ESTIMATE  
 TABLE C-2 - COST ESTIMATES BY ROUTES AND STATE TOTAL  
 STATE : MONTANA

LE15R93A  
 PAGE NO. : 1

(INCLUDES ONLY THOSE COSTS AND ASSOCIATED MILEAGE ELEGIBLE FOR FAI FUNDING, FINANCE CODE 21, 22, 23 AND 25)

INTERSTATE ROUTE NUMBER	015	090	T O T A L
LENGTH, MILES	28.20	33.50	61.70
1. PRELIMINARY ENGINEERING	175	55	230
2. R.O.W.    A. ACQUISITION	0	0	0
B. RELOCATION	0	0	0
3. UTILITY ADJUSTMENTS	0	0	0
4. EROSION CONTROL, CLEAR, GRUB, GRADE, DRAIN, MINOR STRUCT.	22,387	4,381	26,768
5. SUBBASE, BASE, SURFACING, AND SHOULDERES	12,969	13,525	26,494
6. R. R. GRADE SEPARATIONS	318	0	318
7. HIGHWAY GRADE SEPARATIONS WITHOUT RAMPS	3,672	563	4,235
8. INTERCHANGES	3,516	1,330	4,846
9. OTHER BRIDGES, TUNNELS AND WALLS	444	903	1,347
10. TRAFFIC CONTROL DEVICES	3,366	798	4,164
11. WEIGH STATIONS, PEDESTRIAN AND BICYCLE FACILITIES	0	0	0
12. SAFETY WORK ON COMPLETED SECTIONS	0	0	0
13. NOISE ABATEMENT MEASURES	0	0	0
14. ROADSIDE IMPROVEMENT    A. LANDSCAPE PLANTING	0	0	0
B. REST AREAS AND OVERLOOKS	0	0	0
15. OTHER ITEMS: MAINT. OF TRAF., TRAINING, MOBIL., ETC.	2,386	1,288	3,674
16. SUBTOTAL, LINE 4 THRU 15	49,058	22,788	71,846
17. CONSTRUCTION ENGR AND CONTINGENCIES - 15% OF LINE 16	7,359	3,418	10,777
18. TOTAL COST OF CONST., LINES 16 AND 17	56,417	26,206	82,623
19. TOTAL ESTIMATE COST. LINES 1, 2, 3 AND 18	56,592	26,261	82,853

TABLE C-3 - COST ESTIMATES BY ROUTES AND STATE TOTAL  
STATE Montana

(Includes Only Those Costs and Associated Mileage Not Eligible for FAI Funding, Finance Codes 12 and 24)

Interstate Route Number														
Length, miles														
WORK CLASSIFICATION							ESTIMATED COSTS (1,000 Dollars)							
1. PRELIMINARY ENGINEERING														
2. R.O.W. a. Acquisition														
b. Relocation														
3. UTILITY ADJUSTMENTS														
4. EROSION CONTROL, CLEAR, GRUB, GRADE, DRAIN, etc.														
5. SUBBASE, BASE, SURFACING AND SHOULDERS														
6. R.R. GRADE SEPARATIONS														
7. HIGHWAY GRADE SEPARATIONS WITHOUT RAMPS														
8. INTERCHANGES														
9. OTHER BRIDGES, TUNNELS AND WALLS														
10. TRAFFIC CONTROL DEVICES														
11. WEIGH STATIONS, PEDESTRIAN & BICYCLE FACIL.														
12. SAFETY WORK ON COMPLETED SECTIONS														
13. NOISE ABATEMENT MEASURES														
14. ROADSIDE IMPROVEMENT a. Landscape Planting														
b. Rest Areas & Overlooks														
15. OTHER ITEMS: Maint. of Traf., Train., Mobil, etc.														
16. SUBTOTAL, LINE 4 thru 15														
17. CONST. ENGR. & CONTINGEN 15% of LINE 16														
18. TOTAL COST OF CONST. LINES 16 and 17														
19. TOTAL ESTIMATE COST, LINES 1,2,3 and 18														

ZERO COST

TABLE D COST OF INTERSTATE BOND, ACI AND ADVANCE  
ACQUISITION PROJECTS

(Projects completed or in authorized status as of January 1, 1984)

STATE Montana

Interstate Route	Estimate Section	Project No.	Work Class	Rural or Urban	Actual or Estimated Project Costs Federal (I) Funds (\$1,000)	State Matching (\$1,000)	Total Cost (\$1,000)
90		I-IG-ID 90-1(61)27 U-9	Const.	R	4,791	462	5,253
Preparation of Estimate I-EST-85(001)					23	2	25
<b>TOTAL</b>	xxxxx	xxxxx	xxxxx	xxxxx	4,814	464	5,278

The above projects are not included in Table B or Table C.

BB/dk/201E



